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# PROGRESS REPORT

OF

# FOREST ADMINISTRATION

IN THE

# PUNJAB

FOR

## 1890-91.

LAHORE: PRINTED BY W. BALL & Co.,
(Successors to the Punjab Printing Company),
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1891.

No. 1165-F, dated Simla, the 22nd October 1891.

From—SIR E. C. BUCK, KT., Secretary to the Government of India, Revenue and Agricultural Department,

To—The Revenue Secretary to the Government of the Punjab.

I am directed to acknowledge the receipt of your letter No. 296, dated the 24th August last, forwarding the Annual Report on Forest Administration in the Punjab for the year 1890-91, together with the Honourable the Lieutenant-Governor's review thereof. The Report, as in previous years, has been submitted with punctuality.

2. The annexed statement indicates the areas of the various classes of forests under the control of the Department during the year, as well as the changes in area which have taken place during the same period :—

| Class of Forests. | At commencement of the year. | Added. | Excluded. | At close of the year. | Proportion of Forests to whole area of Province (106,613 sq miles). |
|---|---|---|---|---|---|
| | Sq. miles. | Sq. miles. | Sq. miles. | Sq. miles. | Per cent. |
| Reserved Forests ... | 1,373 | ... | ... | 1,373 | 1·3 |
| Protected " .. | 358 | ... | 4 | 354 | 0·3 |
| Unclassed " ... | 3,920 | 2 | 6 | *3,916 | 3·7 |
| Total ... | 5,651 | 2 | 10 | 5,643 | 5 3 |
| | 321 | ... | ... | †321 | 0 3 |
| GRAND TOTAL ... | 5,972 | 2 | 10 | 5,964 | 5 6 |

* Includes 14 square miles in Chamba and 241 square miles in Bashahr.

† Includes 159 square miles in Chamba and 162 square miles in Bashahr.

The alteration in the gross area of the Reserved Forests on the books of the Department was trivial, amounting to a net decrease of 54 acres, and need not be further alluded to. Net exclusions of area from Protected and Unclassed forests amounted to 4 square miles in each case. An area of 15,614 acres in the Lahore District, transferred as fodder-reserves to the Military Department, was constituted Reserved Forest during the year, under section 19 of the Forest Act. The preliminary steps, taken in 1889-90 and previously, with a view to the establishment of irrigable reserves in proximity to the Chenab Canal, have been abandoned. It is observed that it is in contemplation to establish in lieu of the existing forest adjoining the canal, much of which will be granted for cultivation, a block of 20,000 acres on the plan of the Changa Manga plantation. In deciding upon the location of the proposed plantation, due consideration will doubtless be accorded by His Honour to the question of the supply of surplus water which can be made available from the canal, and to the existence of suitable lines of export which can alone render the forest-produce utilizable. These questions must be of vital importance to the success of the proposed plantation.

3. It is observed, from what is stated in paragraph 2 of His Honour's Resolution on the present Report, that the issue of final orders on the forest settlements of the Kangra District is still under consideration. In this connection I am to invite attention to the remarks contained in the letters from this Department marginally noted, conveying the orders of the Government of India on the Punjab

No. 1271-F., dated 13th December 1889.
" 919-F., dated 27th October 1890.

Forest Administration Reports for 1888-89 and 1889-90. In these communications the great desirability of an early disposal of this question, which, as regards the Kulu forests, was initiated more than eleven years ago, was specially brought to the notice of His Honour the Lieutenant-Governor. In adverting again to the continued delay in the final disposal of these important settlements, I am desired to point out that the prolonged suspension of orders on these settlements is not only a hindrance to measures of material forest progress, such as the preparation of Working-Plans, but tends to create, on the part of administered and administrators alike, feelings of doubt and hesitation in regard to local forest questions. I am accordingly to request that His Excellency in Council may be favoured with an early intimation of the course which the Government of the Punjab intends to pursue in regard to the forests of Kangra and Kulu.

With respect to the re-settlement of certain forests in the Gujrát District, alluded to in paragraphs 3 and 4 of the Report, which were originally declared reserved under section 34 of the Forest Act, the Government of India concur in His Honour's opinion that the re-notification of these forests under any other section is superfluous, as section 34 itself provides for an enquiry into and settlement of rights, following in this respect the procedure prescribed in Chapter II of the Act. Any disafforestations of areas reserved under section 34 will of course require the previous sanction of the Government of India.

A number of Military grass-reserves in various districts, aggregating 8,786 acres in extent, were notified for reservation under section 4 of the Act. The policy pursued in the Punjab with regard to these preserves is sound and practical and has the approval of the Government of India.

No progress was made during the year in the examination of the land-records in connection with the reserved forests of the Jhelum District. The suggestion of the Conservator, that corrections in the records should only be made as errors are discovered, does not commend itself to the Government of India as a desirable solution of a question which requires speedy settlement.

4. The boundary work executed was somewhat less than in the preceding year. A fairly satisfactory amount of work in this direction was carried out in the six Hill Divisions, where 370 miles of boundary lines were cleared or maintained, and 5,776 pillars erected or repaired. It is satisfactory to observe that the demarcation of the insufficiently defined areas in the Plains Divisions is receiving attention.

5. Surveys of the forests in the Kangra District were continued during the year by a party of the Imperial Survey Department, and considerable progress has been made. The Forest-Survey Branch was employed in the leased forests of Bashahr, and completed 378 square miles of triangulation and 500 square of topographical surveys.

The special Working-Plans party, which, after a prolonged period of abeyance, was revived at the close of the year 1889-90, remained in charge of a gazetted officer during the year, and was employed mainly in the forests of the Bashahr State. I am to express a hope that the working schemes for these forests, the necessity for which is believed to be urgent, may be completed at an early date.

In reviewing the forest progress made in the Punjab during 1889-90, the Government of India urged the necessity for the preparation of Working-Plans for certain forests in the Kangra District. But from a perusal of His Honour's review of the present Report, the subject does not appear to have received any special consideration. During the year, the Working-Plans for the Changa Manga and Murree Forests were finally sanctioned; and after its close a Plan for the working of the Pangi Forests was forwarded for the scrutiny of the Inspector-General of Forests. With reference to the information furnished by the Conservator in paragraphs 12 and 13 of his Report, regarding Plans for the Kotguru-Kotkhai forests, as well as for those belonging to or leased by the Simla Municipality, the Government of India observe with regret that these papers

have been under the consideration of the Deputy Commissioner for upwards of a twelvemonth.

The prescriptions of the Plans in force were, broadly speaking, carried out during the year; but sufficient attention does not appear to have been given to the general control of the Plans, in accordance with the standing orders contained in the Forest Code. The requisite sanction of the Local Government to the more important of the deviations from certain Plans, which have taken place during the past few years, has not yet been communicated in accordance with the provisions of section 69 of the Code.

6. The expenditure on communications continued comparatively small. The total expenditure was Rs. 7,919, or Rs. 1,626 in excess of previous figures, but it only amounted to a percentage of 0·95 upon the figures for gross revenue.

7. The remarks on forest prosecutions and compositions, contained in His Honour's review, are in accordance with the views of the Government of India. It should not, however, be lost sight of that while the working of the provisions of section 67 of the Forest Act requires most careful supervision, there are many districts where its extended application would be at once a boon to the people and a marked convenience to the forest administration. It is frequently the case that in Hill Divisions, where Magistates are few and far between, the mere bringing of a petty offender before a Court is in itself a punishment incommensurate with the nature of the offence. The annexed statement compares the number and kind of forest-offences compounded and prosecuted in Court with the figures of the previous years :—

| Year. | New cases. | | | Proportion of convictions to total number of cases decided by the Courts. |
|---|---|---|---|---|
| | Taken into Court. | Compounded. | Total. | |
| | No. | No. | No. | Per cent. |
| 1890-91 ... ... | 1,106 | 880 | 1,986 | 84 |
| 1889-90 ... ... | 1,211 | 909 | 2,120 | 78 |
| Increase in 1890-91 ... | 105 | 29 | 134 | 6 |

The number of grazing animals impounded amounted to 34,585, being an increase of 18 per cent. on the figures of the previous year.

8. The tabular statement in the Report, showing closures to the various classes of grazing, is very complete and interesting. As remarked in His Honour's review, no table of the kind can indicate the extent to which the graziers are affected by the closures. But it can and does indicate, in respect of areas opened or closed to browsing animals, how far the interests of consumers of other forest-produce are safeguarded. The Local Government, in commenting upon the Resolution of this Department on this subject, communicated with Circular No. 21-F, dated the 12th July 1889, stated that the principles of the Resolution are always borne in mind. The main principle enunciated was that the browsing of goats and sheep is incompatible with rational forest administration. The Government of India, I am to say, regret that His Honour sees no present advantage in the issue of local rules for generally regulating this question. Reference has been made to the Forest Administration Report for 1889-90 as indicating that progress in this direction is being effected. The opening in 1889-90 of 17 square miles of forest wholly closed to browsers may very possibly outweigh any advantages which were derived by an additional partial closure of 62 square miles. Similarly, as regards the year now under review, while the total closure of an additional 71 square miles of forest is satisfactory, it cannot be said

with certainty that the rearrangements as regards partial closures, noted in the Report, constitute a step in advance. His Excellency the Governor-General in Council is of opinion that there is no branch of the forest administration in the Punjab more worthy of careful consideration than the regulation of grazing.

9. The protection of the forests from fire was unusually successful and compares well with the results of the previous year. The conditions, however, were altogether abnormal, for the hot season of 1889-90 was as favourable for fires as that of 1890-91 was the reverse. While the area over which protection was attempted decreased by 72 square miles, the failures were less by 90; consequently the area actually protected was greater by 18 square miles. The cost of protection per square mile also decreased from Rs. 7 to Rs. 4. The forests of the Hazara and Rawalpindi Districts, where fires are usually prevalent, almost entirely escaped. The remarks recorded in paragraph 25 of the Report, to which attention is drawn in the 4th paragraph of His Honour's review, deserve some notice. The position cannot of course be accepted that a difference of opinion between forest and civil officers should preclude an amelioration of the evils caused by wilful incendiarism. The policy to be followed, when once clearly laid down by the Local Government, should be carried into the fullest effect by the united efforts of both forest and civil departments. His Excellency the Governor General in Council cannot but consider that the views recorded by the Deputy Commissioner of Rawalpindi are at variance with the general principles now universally applied for the protection of forest property, the maintenance of which is as beneficial to the adjacent population as it is to the general public; and he is of opinion that special care should be taken to establish some definite policy which will tend to prevent the intentional firing of forests, and at the same time admit of appropriate punishment being accorded for wilful incendiarism whenever it can be imposed without being stigmatized as arbitrary and indiscriminate.

10. The remarks on the subject of natural reproduction, contained in the Conservator's Report, are interesting, though too comprehensive. It is somewhat disappointing to observe that the experiments made with a view to improving the reproduction of *Prosopis spicigera* in the *bar* tracts, point to the conclusion that they cannot with advantage be expanded into a cultural method of treatment. It is reported that the Reserved Forests in the Chamba State have been leased by the Raja for grazing, and that the natural regeneration of these forests has thereby been considerably affected His Excellency in Council desires that full information regarding this question be furnished in the next Report. The statement of the Conservator that certain villages in the Jhelum District appreciate the advantages which they derive from the closure to grazing of the forests, is full of significance, and I am to suggest that enquiries might be instituted in other districts with a view to ascertaining whether similar sentiments are entertained elsewhere.

11. The net addition during the year to the area under artificial reproduction amounted, as indicated in Form No. 52, to 148 acres. The result of the year's work, as summarized in paragraphs 31 to 33 of the Report, are disappointing. The net addition to the area of plantations was small, the expenditure per acre of plantation constituted was excessive, and the area of failures has been very considerable It would appear advisable, where failures are extensive and frequent, to consider each case carefully in its financial aspect before deciding upon further extension of the work: expenditure which results in complete failures is unproductive capital sunk beyond recall. By way of illustration it may be pointed out that during the past three years, the charges incurred upon the Dagshai plantation amounted to Rs 5,867, exclusive of establishment; during the same period, areas aggregating 886 acres were written off as failures, and the total extent of the plantation is only 400 acres.

12. But little is recorded in the Report with regard to the removal of inferior or injurious species from the forests, and I am desired to refer you, in respect of this important subject, to paragraph 10 of the Government of India's review of the Punjab Forest Administration Report for 1888-89, in which a hope was expressed that the question might be dealt with in future Reports in greater detail.

13. The following table shows the outturn of the forests, as compared with the results for 1889-90:—

| Agency. | Timber. | Fuel. | Bamboos. | Other minor produce. |
|---|---|---|---|---|
| | Cubic feet. | Cubic feet. | No. | Value in Rs. |
| Government ... .. | 878,351 | 2,077,518 | 654,850 | 486 |
| Purchasers ... ... | 298,782 | 1,641,781 | 7,008 | 2,29,864 |
| Right-holders ... ... | 627,410 | 26,086,451 | ... | 2,27,128 |
| Free-grants ... ... | 63,385 | 49,841 | 600 | 6,801 |
| TOTAL ... | 1,867,928 | 29,855,591 | *662,458 | 4,64,279 |
| Total in 1889-90 ... | 2,845,449 | 24,172,012 | 680,521 | 4,33,683 |
| Increase or decrease in 1890-91 | —977,521 | +5,683,579 | —18,063 | +30,596 |

* Value Rs. 12,664.

The total quantity of timber and fuel removed amounted to 31,723,519 cubic feet solid, being an increase of 4,706,058 cubic feet on the previous figures. This increase was, however, only nominal, being mainly due, as explained, to the employment of more correct factors of conversion in the case of produce removed by right-holders in Bashahr. The estimated increase from this cause amounted to 6,185,294 cubic feet, so that in reality the year's working, as regards timber and fuel, resulted in a net decrease of 1,479,236 cubic feet. The outturn from forests worked by Departmental agency increased, however, by 349,760 cubic feet, due principally to the provisions of the Working-Plan for the Chamba forests being worked up to.

14. The financial results of the year are indicated in the following table:—

| Year. | Receipts. | Charges. | Surplus. | Proportion of Surplus to gross Revenue. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs | Per cent. |
| 1890-91 ... ... | 8,34,370 | 6,63 544 | 1,70,826 | 20 |
| 1889-90 ... ... | 9,21,713 | 6,45,855 | 2,75,858 | 30 |
| Increase or decrease in 1890-91. | —87,343 | +17,689 | —1,05,032 | —10 |

The decline of the net revenue obtained is, as stated in His Honour's review, a matter for regret, but it is satisfactory that the results are not attributable to any fault on the part of the Departmental officers. The decrease, it is hoped, may be more than covered during the current year by the disposal of the large stocks now on hand at higher prices, which are expected to prevail.

15. In conclusion I am to say that the Report of the Conservator, Mr. Wild, is business-like and remarkable for its accuracy.

[ K. C. M. ]

G. C. Press, Simla,—No 10·5 R & A D.—30 10 91.—250.

Proceedings of the Hon'ble the Lieutenant-Governor of the Punjab, in the Forest Department, No 295, dated 24th August 1891.

READ—

The Progress Report on the Forest Administration of the Punjab for the year 1890-91, submitted by the Conservator of Forests with his letter No. 1201 of 25th July 1891.

REMARKS.—The revenue of the Forest Department during the year was Rs. 8,34,370 and the expenditure Rs. 6,63,544. The surplus was thus only Rs. 1,70,826, which is more than a lakh below the surplus of the previous year, and is indeed considerably below the average annual surplus of thirteen years. The main reason for this disappointing result lies in the dulness of the market for large timber. Prices ruled very low towards the end of the year, and sales were accordingly restricted. The quantity of deodár logs and sleepers in stock at sale depôts when the year closed was thus much greater than when the year commenced. The excess under these descriptions alone is valued at about Rs. 1,04,000. Besides this falling-off in timber sales there was also a diminution in the receipts from drift and waif wood and from firewood and charcoal removed by purchasers. On the other hand, there was a very large increase in the sales of fuel departmentally worked and supplied to the North-Western Railway. Part of this increase seems, however, to be due to payment for fuel supplied in the previous year. As regards the timber in stock, it does not appear whether it is valued at the prices ruling when it was received into depôt or at the prices now actually obtainable in the market. On the whole the financial results of the year are disappointing, although the shrinkage in income is due not to any fault in departmental working, but to the glutting of the timber market with large private supplies at cheap rates.

2. The changes in forest area and classification during the year are trivial. A tract of about 16,000 acres in the Lahore District which is in the hands of the Military Department as grass land has, however, been constituted a reserved forest. There are at present no Forest Settlements in progress which involve special expenditure. The final reports of the Settlements in the Kángra District are under consideration, and the Report on Shahpur Kandi has just been received from the Financial Commissioner. The Working Plans Division has been mainly employed on the leased forests of Bashahr, and the Working Plans for Chánga Mánga and Murree and Kahuta were finally sanctioned during the year.

3. Forest offences show an increase of 105, or rather more than 9 per cent. A good many cases were, however, in connexion with forest fires in the previous year. The percentage of convictions was 82, which is a very high average result. Under Section 67 of the Forest Act 909 offences were compounded, chiefly in the Ráwalpindi and Jhelum Divisions. The average composition was about Rs. 4. Power to compound is most useful and convenient, and apparently it has been used judiciously and with moderation. It is, however, of course always liable to abuse, and the Lieutenant-Governor trusts that the Conservator will continue to keep vigilant watch upon its exercise. Grave cases should not be compounded. Excessive compositions should not be demanded. Every compounded case should be properly and punctually registered, and all irregular attempts at fraudulent compositions by unauthorized persons should be rigorously put down and punished. The Lieutenant-Governor is glad to think that these principles are duly observed by the Conservator and his officers.

4. Forest fires, which were last year so disastrous, have this year been few and unimportant. This was to be expected, as for some years after fires the

forests are less inflammable and the punishments inflicted have at least a temporary effect, but in any case the character of the rainfall would have prevented extensive fires. There can be little doubt that in most cases these fires are intentional, but are not in one sense malicious. They are merely an obstinate persistence in an old practise intended to provide a fresh grass supply for cattle. In a correspondence with the Conservator the Lieutenant-Governor expressed the opinion that in certain tracts fire lines round the reserves and the periodical firing under regulation of forest lands outside were measures which should be tried. If the evil cannot be remedied in this way, it will be necessary to be patient with the people, and to be content if they are gradually induced to amend their ways. Arbitrary laws and severe and indiscriminate punishment would exasperate and alienate the population.

5. The table of the areas open and closed to grazing has now been improved in accordance with the suggestions made last year. No table of the kind can, however, ever show adequately how the closures necessary for conservancy really affect the graziers: for the figures deal merely with areas and show no regard either to quality or locality. It appears, however, that the area totally closed has increased by 71 square miles during the year. These total closures extend to 47 per cent. of the whole reserved area, while 24 per cent. more is partially closed. These restrictions are, however, very unequally distributed. In Kángra, in Simla, in Lahore, in Montgomery and in Mooltan there is no unrestricted grazing in any reserve. In Ráwalpindi and in the Chenab Division the amount allowed is very small, but in Chamba and Bashahr it may be called considerable.

6. Natural reproduction presents a mingled record of success and failure. In some places where it seemed in successful progress it suffered a violent death from locusts. Artificial reproduction was not conducted on any large scale, and the experiments with *Robinia pseudo Acacia* and the *Albizzia Lophanta* were on the whole unsuccessful. Further trial of these species is, however, desirable.

7. The Lieutenant-Governor regrets that owing to the weakness of the Forest staff it has been found necessary to withdraw Mr. McIntire from his work in the Simla Hill States. That work has now been added to the Bashahr Forest Division, and as soon as the reorganization of the Department (now pending) has been carried out an officer of minor control will be attached to this Division to assist the Divisional Officer.

8. The work of the year was carried out under Mr. Whittall, but the present Report has been submitted by Mr. Wild, Officiating Conservator, to whom the acknowledgments of the Lieutenant-Governor are due.

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ORDER.—Ordered that the above Remarks be printed and published as usual with the Report and in the *Punjab Government Gazette.*

Also that they be forwarded with the Report to the Government of India in the Department of Revenue and Agriculture.

By order of the Hon'ble the Lieutenant-Governor,

R. G. THOMSON,

*Offg. Revenue Secretary to Government, Punjab.*

Punjab Government Press, Lahore—25-8 91—259.

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No. 1201.

# FOREST DEPARTMENT, PUNJAB.

FROM

A. E. WILD, ESQUIRE,
*Offg. Conservator of Forests, Punjab,*

To

THE REVENUE SECRETARY TO GOVERNMENT, PUNJAB.

*Dated Lahore, the 25th July* 1891.

SIR,

I have the honor to submit the Annual Administration Report of the Punjab Forest Department for the year 1890-91.

I have the honor to be,
Sir,
Your most obedient servant,
A. E. WILD,
*Offg. Conservator of Forests, Punjab..*

BENGAL SECRETARIAT LIBRARY.

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE PUNJAB

FOR THE YEAR 1890-91.

## CHAPTER I.—AREAS AND BOUNDARIES.

### I.—Areas.

Changes during the year

The following statement shows the changes that have taken place in the areas on the books of the Forest Department during 1890-91, resulting in a small decrease under each class of forest aggregating 5,319 acres :—

| | At the commencement of the year. | Added. | Excluded. | At the close of the year. |
|---|---|---|---|---|
| | Acres. | Acres. | Acres, | Acres. |
| Reserves .. | 10,84,446 | 223 | 277 | 10,84,392 |
| Protected ... | 2,29,209 | ... | 2,589 | 2,26,620 |
| Unclassed .. | 25,09,007 | 1,354 | 4,030 | 25,06,331 |
| Total ... | 38,22,662 | 1,577 | 6,896 | 38,17,343 |

Changes by Divisions

2. The detail of these changes in the various classes of forest exhibited in Form 49 is as follows :—

*(a) Reserved Forests.*

*Rawalpindi.*—A further examination and correction of the Settlement Records has led to the exclusion of 132 acres from the Patriata Forest in Murree.

*Kangra.*—An area of 26 acres has been added to the Baghrian Plantation in the Gurdaspur and Hoshiarpur Districts by remeasurement, while the Mallanwal Reserve has been reduced by 12 acres in consequence of river action, causing a net addition of 14 acres.

*Bashahr.*—A re-estimation of area resulted in an addition of 30 acres to the Taranda Reserves.

*Jhelum.*—Thirty-one acres were carried away by river action, 5 acres from Saila Bela and 26 from Piraghaib, and 13 acres were given to the zemindars of Gujrat from the latter reserve under the Hadd-i-Sikandri rule ; thus a total area of 44 acres has been excluded from this division.

*Chenab.*—In the Gujranwala District 12·28 acres have been transferred to the Canal Department and excluded from the Gujianah Reserve in the Háfizabad range by Gazette Notification No. 70, dated 19th February 1891. In the Gujrat District 25 acres have been added to Behlolpur, 26 to Kaulowal and 2 to Syan Reserves, by river action. Similarly 23 acres have been excluded from Kotli Gohan, 1 from Sadoke and 1 from Pindi Tatar. Thus an area of 53 acres has been added to the reserves and 37 acres excluded, resulting in a net addition of 16 acres.

*Lahore.*—One hundred and fourteen acres, due to the gradual action of the river since last Settlement, have been added to the Shahdera Reserve by the Revenue Settlement now in progress, and two acres have been excluded from similar causes from the Gagrewal Reserve.

*Multan.*—A total area of 12 acres has been excluded and transferred to the Canal Department for various works, *viz.*, 2·03 acres from Makhdum Vinoi, 3·28 from Dangra and 6·5 acres from Khanwah Reserves, under the authority of *Punjab Government Gazette* Notifications Nos. 475 and 476, dated 6th November 1890 and No. 79, dated 24th February 1891.

*Simla Hill Tracts.*—A correction of last year's Form 49 has necessitated the exclusion of 38 acres.

(*b*) *Protected Forests*

*Rawalpindi.*—In the Murree Range 7 acres have been excluded from the Potha Protected Forest, owing to the correction of errors in the Settlement Records.

*Chenab.*—Two thousand five hundred and seventy-three acres have been made over to settlers for colonization from the Hafizabad Protected Forests; 3·35 and 5·50 acres were transferred to the Irrigation Department from Bhikolohari and Bhagomali, respectively, under the authority of Punjab Government Notifications Nos 443 and 444, dated 28th October 1890.

(*c*) *Unclassed Forests.*

*Kulu.*—No orders having as yet issued on the Kulu Forest Settlement, the whole of the Kulu Forests are still again shown as unclassed. Corrections in previous returns have necessitated the exclusion of 60 acres from Bung Bindraban Forest in Outer Seoraj, and of 10 acres from Bindraban Forest in Waziri Rupi, and the addition of 120 acres to the Lahoul Forests. Sixty-nine acres were given up for cultivation from the proposed protected undemarcated forests. 1·75 acres of unforested land outside the boundary were exchanged for an equal area covered with forest adjoining the Sahita demarcated forest.

As pointed out in last report, the areas indicated in Form 49, especially those of the undemarcated forests, are merely rough approximations, and will have to be considerably modified on completion of the survey now in progress. Already the true areas of many of the demarcated forests have been ascertained, and show differences of as much as 50 per cent. on the estimated areas, but it has not been thought advisable to make any alteration until the survey is more advanced and whole groups of forests can be corrected at once.

*Jhelum.*—Owing to a confusion in names, the area of Rakh Sodhi in Khushab has been reduced by 1,882 acres.

*Chenab.*—174·88 acres were excluded from Bela Santpura and transferred to the Irrigation Department under the authority of Government letter No. 4 S., dated 28th May 1889. River action increased the area of the Chenab Belas by 438 acres and that of the Jhelum Belas by 101 acres; it also reduced these areas by 466 acres on the Chenab and 15 acres on the Jhelum. One hundred and forty-nine and 13 acres, respectively, were also added to Belas Gulabghur and Talianwala on the Chenab by re-measurement. From the same cause 6 acres were added and 51 acres were excluded from the Bhera Forests; the latter from Bhiki-Khurd. A further exclusion of 300 acres was made from these forests under grants and on the orders of the Financial Commissioner contained in No. 676 of 30th January 1890. The net result is a loss of 300 acres.

*Lahore.*—An area of 5 acres made over to the North-Western Railway from Pattoke Forest in accordance with the orders of the Punjab Government contained in No. 160, dated 2nd April 1885, previously omitted to be struck off, has now been excluded; also 498 acres in correction of previous returns from Rakh Bhangali, and from the same rakh, 145 acres have been transferred and leased to Bhai Mian Singh under sanction of Punjab Government letter No. 77, dated 4th February 1890, to the address of the Financial Commissioners.

*Multan.*—In the Muzaffargarh District, 2·39, 16·5 and 0·55 acres were made over to the Canal Department from Rakhs Bet Daryai, Aliwal and Luttigiri, respectively, and these areas have been excluded under the authority subsequently given in Government letters Nos. 149 and 210, dated respectively, 9th April and 28th May 1891. An area of 323 acres has been added by river action to the Sanjar Forest in the Dera Ghazi Khan District. Two plots of land in rakh Fazilpur, measuring nearly 87 acres were exchanged for an equivalent area from District rakhs.

*Montgomery.*—Under the sanction of Government letters Nos. 582 and 773, dated respectively, the 22nd September and 12th December 1890, Financial Commissioner's No. 3352, dated 2nd June 1890, and Commissioner and Superintendent's Lahore Division, No. 170, a total area of 246 acres has been given out on cultivating leases from the Gugera and Chichawatni Ranges.

*Simla Hill Tracts.*—One hundred and fifteen acres have been taken over in the Jutogh Plantation under orders contained in Punjab Government No. 60, dated 11th February 1890

*Forest and Land Revenue Settlements*

Forest Settlements

3. Final orders have been passed during the year on the Forest Settlement of certain Reserves in the Kharian and Gujrat Tahsils of the Gujrat District. These forests were gazetted as reserves under Section 34 of the Forest Act in *Punjab Gazette* Notification No. 109 F., dated 6th March 1879, but no enquiry into rights was then made. This has been the object of the settlement above mentioned, and all rights have now been finally settled and disposed of under Chapter II. It has been decided in Punjab Government No. 261, dated 26th June 1890, not to re-gazette the forests under Section 19, but merely to notify certain lands excluded by the Forest Settlement from the areas originally constituted as reserves, and a draft Notification to this effect is now under the consideration of the Financial Commissioner.

Orders are still awaited on the Kulu, Kangra and Shahpur-Kandi Forest Settlements.

An enquiry into, and a settlement of rights in the Pangi Forests were commenced in 1886, along with the Working Plan and completed in 1888. The rights then proposed to be admitted were, however, under the rules of the revised Chamba Forest Lease, subsequently defined as privileges only. A statement of these privileges has been embodied in the Working Plan of the Pangi Forests, and a copy thereof has, since the close of the year, been forwarded to the Commissioner and Superintendent, Lahore Division, for the approval of the Rajah.

The records prepared for the four forests of the Dalhousie Range, alluded to in last report, were forwarded to His Highness the Rajah of Chamba in 1885-86, but have not even as yet received his acceptance. Some correspondence has, however, taken place on this subject during the year, and it is hoped that the question may shortly be brought to a satisfactory settlement.

No expenditure has been incurred during the year on Forest Settlements.

Land Revenue Settlements

The statement in last year's report of the progress made in the examination and correction of the land settlement papers in the Jhelum Division was incorrect, and confused the work with that of actual and impending settlements. During 1889-90, the papers of 11 reserves only, with an aggregate area of 34,814 acres were examined when the work was stopped, owing to its intricate nature, and pending further instructions called for by the Divisional Officer which apparently have not yet issued. Hence during the year under report, there has been no progress, and there now remain the papers of 22 reserved forests with a total area of 1,58,713 acres still to be examined. The errors, to judge from those already found, are so numerous and complicated, that it is a question whether the work should not be altogether discontinued and only taken up as mistakes come to light in the ordinary course of management. To carry it out in a satisfactory manner, and as enjoined in Financial Commissioner's

No. 1785 of 23rd March 1888 will probably necessitate a re-survey of many areas, or at any rate demand special establishment.

Revenue settlements are in progress in several districts, but no large forest areas have come under their operations during the year. In Gujrat certain proposals, with regard to re-arrangement of the boundaries of some of the Chenab Belas now under settlement under Chapter II of the Forest Act, have been made since the close of the year by the Settlement Officer, and are under consideration. No forest areas have yet been dealt with in Gujranwala, while in Lahore only the Shahdera Reserve and in Amritsar the Nag and Bahoru Reserves have been completed.

Reservation of new areas

4. During the year under report, the rakhs in the Lahore District aggregating an area of 15,614 acres made over to the Military Department have been constituted reserves under Section 19 of the Forest Act by *Punjab Gazette* Notification No. 400, dated the 6th October 1890.

The question of the transfer of the Gujrat Reserves from their existing status, as Reserves under Section 34 to Reserves under Section 19 of the Forest Act has, as noted in para. 3, been settled in Punjab Government letter No. 261, dated 26th June 1890. His Honor the Lieutenant-Governor considers it inadvisable to cancel the notification of 1879, and renotify the areas under Section 19 as liable to throw doubt on reservation proceedings undertaken under Section 34.

The reservation of the areas mentioned in last report as having been notified under Section 4 of the Forest Act, *viz.*, the Arbi grass preserve of 30 acres in the Multan District, and the 19 Belas in the Gujrat District, has advanced, and enquiries into rights by the Forest Settlement Officer are now in progress.

The proposals for the reservation of a block of 25,758 acres in the Gujranwala District made in 1886, and of another of 6,371 acres notified under Section 4 of the Act last year, have been abandoned, and as it is anticipated that the greater portion of the present reserved and protected forests in the Hafizabad Tehsil of this district will shortly have to be given up for colonization in connection with the Chenab Canal scheme, orders have been issued, since the close of the year under report, in accordance with Financial Commissioner's No. 2157, dated 3rd April 1891, to the address of the Commissioner and Superintendent Rawalpindi Division, to select an area of 20,000 acres, partly in the Gujranwala and partly in the Jhang Districts, irrigable by the canal and capable of being formed into a plantation similar to Changa Manga, in lieu of these areas and of the present forests, and the matter is now with the local officers.

The project for the application of Chapter II to the Morni jagir forests in the Ambala District has been definitly abandoned, and the preliminary notifications cancelled by Gazette Notification No. 319 of 1st August 1890.

The proposals of the year for new reservations under Chapter II of the Forest Act comprise the following areas, which have all been notified under Section 4, and are intended to form Military Grass Preserves, but which will eventually be shown on the books of the Forest Department, as prescribed by Punjab Government letter No. 305, dated 21st August 1889 :—

| Name of forest. | Area in Acres. | District. | Notifications. |
|---|---|---|---|
| Rakh Mardan ... ... | 788 | Peshawar ... | No. 463 dated 4th Nov. 1890. |
| Bir Chhapar ... ..<br>(Rakh Dhantauri) ... ...<br>Bir Sujra ... ... | ... | Ambala ... | „ 466. „ 5th „ 1890. |
| Rakh Ghoriwala ... ... | 255 | Bannu ... | „ 471, „ 5th „ 1890. |
| „ Khurd ... ...<br>„ Khwaja Khidar ... | 1,158 | Kohat .. | „ 492, „ 14th „ 1890. |
| „ Bandan .. ... | 5,649 | Dera Ismail Khan | „ 80, „ 25th Feb. 1891. |
| „ Phagwara, Plots I & II (Sarangwal Bir). | 936 | Jullundur ... | „ 134, „ 26th Mar. 1890. |

The proposal to demarcate 62 forests aggregating 90,450 acres in the Pabar, Rupin and Giri Range of the Bashahr Division mentioned in last Report is still under the consideration of the Superintendent of Hill States.

Transfer of waste land from District to Forest control.

5. Government in No. 990 S., dated 3rd October 1890, having decided in connection with the transfer of waste lands from the District to Forest control, that the extensive areas of Bar lands are to remain as heretofore under the charge of the District authorities, orders were issued, through the Financial Commissioner towards the close of the year, which should render a final settlement of this long pending question shortly probable.

## II.—Boundaries.

Work of the year

6. The following is a statement of the work done during the year under this head :—

| Divisions. | Boundary Lines. | | Loose stone walling erected. | Trenches. | | Pillars. | |
|---|---|---|---|---|---|---|---|
| | New work. | Repairs. | | Newly made. | Cleared. | Newly erected. | Re-paired. |
| | *M. ch.* | *M. ch.* | *M. ch.* | *M. ch.* | *M. ch.* | *No.* | *No.* |
| Hazara ... ... ... | 30 16 | 46 74 | ... | ... | ... | ... | 252 |
| Rawalpindi ... ... .. | 63 4 | ... | ... | ... | ... | 701 | 325 |
| Chamba ... ... .. | ... | 68 40 | ... | ... | ... | 130 | 567 |
| Kangra ... ... ... | ... | 161 40 | ... | ... | ... | 63 | 2,571 |
| Kulu ... ... ... ... | ... | ... | ... | ... | ... | 911 | 57 |
| Bashahr ... .. ... | ... | ... | ... | ... | ... | 145 | 54 |
| Jhelum ... ... ... | ... | ... | ... | ... | ... | 4 | ... |
| Chenab ... ... ... | .. | ... | ... | ... | ... | ... | ... |
| Lahore ... ... ... | ... | ... | ... | ... | ... | 157 | ... |
| Multan ... ... ... | 35 55 | 127 47 | ... | ... | ... | 180 | 1,033 |
| Montgomery ... ... ... | ... | ... | ... | ... | ... | ... | 51 |
| Ambala ... ... .. | 5 24 | 3 37 | ... | ... | ... | 29 | 33 |
| Total ... | 134 19 | 407 78 | ... | ... | ... | 2,320 | 4,943 |

The work done during the year under report in the cutting of new boundary lines was less than during the year previous, and the number of boundary pillars newly erected also fell short of that of 1889-90. Repairs were on a scale similar to last year.

In Hazara 47 miles of existing lines were cleared, and the present demarcation by masonry pillars of the Khanpur Range supplemented by the addition of 30 miles of newly cut lines at a cost of Rs. 68 and Rs. 165, respectively; 252 old pillars were repaired, costing Rs. 339. The permanent demarcation of the Military Cantonments in the Galis was undertaken by the Military Works Department, and most substantial and well dressed masonry pillars have been constructed and numbered in accordance with the most recent maps published in 1885 The entire work has been done at the expense of the Military Works. At the salient angles and in conspicuous places pillars, 6 feet high, have been erected, while the intermediate pillars are only 2 feet high.

Before the work of the Military Department began, it was thought advisable to define the boundary of these Cantonments by small paths, and a length of 2 miles was actually prepared by the Department at a cost of Rs. 42, when the work was put a stop to in consequence of the demarcation by the Military Works Department, and will not now perhaps be necessary.

In the Rawalpindi Division the demarcation of the Murree and Kahuta Forests was continued, and 120 more masonry tri-junction pillars constructed at a cost of Rs. 450; the external boundary of the Kala Chitta Reserve was completed by the erection of 581 masonry pillars, costing Rs. 1,129. Three hundred and twenty-five old pillars were repaired at a cost of Rs. 182, 16 miles of line, 20 feet broad, were cut and cleared in Kahuta, at a cost of Rs. 100, while in Murree 40, and in Kala Chitta 7 miles were cleared at no expense to the Department by contractors, who bought the produce standing on the lines for Rs. 1,575.

In Chamba 130 new pillars were erected around reserves, and 412 repaired; 68 miles of boundary lines were cleared and 155 pillars repaired in the Shahpur-Kandi Forests, the total cost being Rs. 414.

This was all on the improvement and maintenance of existing demarcation.

In Kangra the only new work was the erection of 63 masonry pillars, 6 feet high, at salient points in the reserves, lately surveyed by the Imperial Survey Department, at a cost of Rs. 162. One hundred and sixty-one miles of boundary lines were cleared, and 1,583 old pillars repaired at a cost of Rs. 96 and Rs. 74, respectively. Nine hundred and eighty-eight pillars were also repaired by right holders.

In Kulu the construction of special pattern pillars at all salient angles is being vigorously pushed on, and the work is now well in advance of the Survey parties. Nine hundred and eleven new pillars have been put up, 651 at the expense of the Department, costing Rs. 306 and 260, in the proposed 2nd class protected forests, by the people at their own cost.

In Bashahr 145 new pillars were erected around the Pandura Forest, thus completing the demarcation of the whole of the reserves in this State. Slight repairs were executed, and pillars numbered at a cost of Rs. 17-0-0.

In Multan 36 miles of new boundary lines were cut in the Muzaffargarh District at a cost of Rs. 282; 128 new pillars of mud only were erected in the Multan District and 52 in Dera Ghazi Khan, costing Rs. 15; 127 miles of old lines and 1,033 pillars were repaired for Rs. 191.

The boundary work done in other divisions was so small as to need no special notice, and consisted in the maintenance and improvement of existing demarcation only.

Attention is being paid to the demarcation of still undefined or insufficiently demarcated areas, and, as the Land Revenue Settlement progresses, the rakhs in the Lahore, Chenab and Jhelum Divisions will be taken in hand.

## CHAPTER II.—SURVEYS, WORKING PLANS AND ANNUAL PLANS OF OPERATIONS.

### I.—Surveys.

Work of the year.

7. During the year Colonel Tanner's party of the Imperial Survey Department surveyed portions of the Hamirpur and Dera Tehsils in the Kangra District, in which a large number of proposed Protected and Reserved forests are situated. In Kulu, the same department completed operations in Outer Seoraj, and made considerable progress in the survey of Upper Kulu, portions of Inner Seoraj and Waziri Rupi.

In Bashahr the Imperial Forest Survey Branch recommenced work in April and left in November. From June to September, the work was under the supervision of Mr. Litchfield, and by the 30th September 378 square miles had been triangulated, and topographical work had covered 500 square miles of very difficult country.

The Land Revenue Survey is in progress in the Lahore, Gujranwala and Gujrat Districts, and a special grant was made by the Government of India for the survey of the Bhera Rakhs, as well as other Government waste in the Shahpur District. Since the close of the year, the survey of the hill rakhs of the Salt Range in the Khushab Tehsil of this District, on the triangular system with the plane table, has been sanctioned in Government letter No. 190 of the 9th May, to address of the Financial Commissioner.

The examination and correction of discrepancies in Settlement Records in the Jhelum Division made no progress during the year for the reasons given in para. 3 above.

Departmental work.

8. In Kulu a plane table boundary survey of Dalogi Forest, in which deodar fellings were carried out during the year, was made by the Divisional Officer. A similar survey of Rakh Bhangali in the Lahore District took place and resulted in the reduction of the area of the rakh under the Department by 409 acres.

Maps.

9. Eight sheets of the preliminary issue of maps of Kulu on a scale of 4 inches to the mile, have been received by the Divisional Forest Officer from the Imperial Forest Survey Department, while a map showing the distribution of forest areas in India, 4 sheets of the survey in progress in Bashahr and Simla Districts and 301 copies of maps of the Chamba Forests, were received from the Imperial Forest Survey Branch, during the year.

## 2.—Working Plans.

Work of the year

10. The Working Plans Branch, re-opened in February 1890, remained in charge of Mr. Lace throughout the year, but was temporarily in abeyance for 3 months, from December to February, during the absence on leave of that officer. Early in the year, Mr. Lace proceeded to Bashahr and commenced the preparation of a Working Plan for the Leased Forests of that State. During June, and while waiting for tracings from the Superintendent Forest Surveys, fellings then in progress were inspected, and useful data collected. In July an enumeration of the 1st and 2nd class deodar was commenced, and by the end of October, when work was stopped by early falls of snow, 65,000 deodar and 1,526 blue pine trees had been counted in the Baspa Valley and the Chini, Kailas and Pandrabis Ranges. Mr. Lace was assisted by Ranger Fazl Din, who did good work, and a Forester ; they were in camp for 188 days, but bad weather (rain falling on 71 days), and the difficulty of obtaining enumerators greatly impeded operations. Some delay at first and inconvenience was also experienced from the want of reliable maps, but as rapid progress in this respect is being made by the Imperial Forest Survey, it is anticipated that this difficulty will speedily be removed, and that the amount of work done by the Working Plans Branch during the current year will be greater than during the season under report.

During March 1891 the Working Plans Branch was further employed on the selection of 1,50,000 acres outside the present reserves in the Montgomery District, in which the cutting and closing, for a term of five years, against the grazing of camels, goats and buffaloes only, of 15,000 acres annually, have been agreed to by His Honor the Lieutenant-Governor in connection with the wood cutting arrangements of this District. The time at disposal was, however, too short to achieve more than the examination of certain areas to the south of the Railway line, from which 43,000 acres may probably be eventually chosen.

In July 1890, Mr. Lace submitted his report on the Kalesar Working Plan mentioned in para. 8 of last report, but in consequence of the difficulty and the ambiguity in the exploitation and disposal of the produce, the proposed fellings are expected to yield, the revision of the Preliminary Plan has not yet been finally completed. Definite proposals will, however, be submitted during the current year.

Working Plans sanctioned during the year

11. During the year the revised proposals of 1889 on the Changa Manga Working Plan of 1886 received the sanction of Government. Final orders were also passed by

His Honor the Lieutenant-Governor towards the end of the year on the Murree and Kahuta Plan.

Working Plans prepared but not yet sanctioned

12. *Pangi.*—This Working Plan is now in print, and has, since the close of the year, been submitted to the Inspector-General of Forests, in accordance with the orders contained in Government of India, Circular No. 28 F. of 6th September 1889.

*Kotguru and Kotkhai.*—The Working Plan for these forests was submitted to the Deputy Commissioner in May 1890 by Mr. McIntire, after the alterations alluded to in last year's report had been made, and is still under the consideration of that officer.

Other Working Plans

13. The submission of the Working Plans for the Simla Municipal Forests and for the leased Simla water-supply catchment area, entrusted to Mr. McIntire for completion in accordance with the suggestions made by the Inspector-General of Forests, has been delayed. A rough plan of working the Municipal Forests for the next ten years has, however, been framed, which will, it is believed, satisfy all practical requirements for the present, and has, in fact, formed the basis of the fellings of the year, but the final submission of the plan has been deferred pending disposal of some uncertainties as to boundaries and settlements. Similarly, the plan for the catchment area was finished, but subsequent proposals for the improvement of the water-supply of Simla, involving the extension of the forest area, has rendered it undesirable that the plan should be submitted for sanction, until the actual extent of the forest to be used for the water-supply has been definitely decided. Both these plans have been made over to Mr. Minniken on the amalgamation of the Simla Hill Tracts with the Bashahr Division

Deviations from sanctioned plans

14. All important deviations from approved Working Plans will be noticed in the appropriate Chapters, as was the case in last year's report. This question has formed the subject of a special reference during the year; Mr. Whittall was of opinion that certain powers of delegation to the Conservator should be permitted under Section 69 of the Forest Code, and since the close of the year proposals have been made by the Punjab Government, and the orders of the Government of India solicited thereon.

Preparation of future Working Plans

15. The requirements of the Province in respect to Working Plans for the large area of forests still unprovided for, are being steadily kept in view, and when the operations in Bashahr are brought to a close, the forests of either Kulu or Hazara will next be taken in hand. In the meantime, and in view of the pressing need for early work in Kulu, it is probable the Divisional Officer may be able to devote some portion of his time in this direction, since fellings are shortly to cease in these forests pending an enumeration of stock.

Control Books

16. Forms 2 and 3, for as far back as reliable information is available, are under preparation in the Conservator's office for all forests of the Province with a view to the collection of data to assist the Working Plans Branch when its operations can be extended.

## 3.—Annual Plans of Operations.

General

17. The provisions of all Annual Plans of Operations have been carried out as far as possible. Where important deviations occur, these will be remarked on hereafter under the heads of works to which they relate.

## CHAPTER III.—PROTECTION AND IMPROVEMENT.

### 1.—Establishment.

Changes in the controlling establishment.

18. Changes of officers were numerous during the year :—

Mr. R. H. C. Whittall, Conservator of Forests, went on privilege leave for two months from 11th October 1890, and again on one year's furlough from 15th March 1891 ; the charge of the Province devolving upon Mr. A. E. Wild on both occasions.

Mr. W. H. Reynolds, Superintendent, Forest Surveys, was transferred to the Imperial Survey, and the post of 2nd grade Deputy Conservator filled by him removed from the Punjab list. Mr. W. Shakespear also left the Province for the North-Western Provinces in June 1890.

Mr. E. Forrest, Deputy Conservator of Forests, obtained 16 months furlough from June 1890, and Mr. Gisborne Smith, Deputy Conservator, returned from leave on medical certificate in October 1890.

Six officers availed themselves of privilege leave.

Babu Jowala Parshad was also on privilege leave for three months from March 1890.

Babu Ladha Singh, Sub-Assistant Conservator of Forests, held charge of the Kangra Division during the absence of Mr. Lemarchand, and again of the Chenab Division while Mr. Pinder was away.

Mr. G. G. Minniken, Deputy Conservator of Forests, returned from deputation to the Patiala State shortly after the close of the year.

General remarks, controlling staff.

19. The controlling staff of 20 officers was reduced to 19 by the transfer of Mr. Reynolds. From these 19 officers, the Province still supplied an officer for Baluchistan, and an Assistant Inspector-General; Mr. Minniken was on deputation, Mr. Whittall and Mr. Forrest on furlough; Mr. Pigot on short leave, and Mr. McIntire on special duty in the Simla States.

Thus there were only 12 officers left for the Conservatorship, 12 executive charges, the Conservator's Office and the Working Plans Division. This necessitated two Sub-Assistant Conservators, Mr. Rossiter and Babu Jowala Parshad, being in charge of the Montgomery and Rawalpindi Divisions, respectively, and the amalgamation of the Simla Hill Tracts with the Bashahr Division.

Since the close of the year Mr. Pigot and Mr. Minniken have returned, but another officer, Mr. Barrett, has gone on furlough, and the services of Mr. McDonell have been lent to the Kashmir State, necessitating an officer holding charge of two Divisions.

The state of affairs, last year depicted as almost unknown, is now beyond parallel, but approaches what must happen on the introduction of the reorganization proposed in Government of India, Circulars Nos. 2 F and 7 F of January and February 1891, which allot to the Punjab 15 officers in the upper controlling staff, and 7 Extra Assistant Conservators in the lower.

Both Mr. Rossiter and Babu Jowala Parshad, the Sub-Assistant Conservators in charge of Divisions, have managed their charges with marked success and deserve credit. Sub-Assistant Babu Ladha Singh also acquitted himself of his Divisional duties in a praiseworthy manner.

Subordinate establishment.

20. During the year the names of Rangers Jaggan Nath and Jai Kishen, have been again favourably brought to notice, and Divisional Officers have reported well of Rangers Ghulam Muhammad II, and Muhammad Ali Shah, and Foresters Sham Singh, Hira Nand, Nawazish Ali, Natha Singh, Ahmad Shah, Bodh Raj and Fateh Chand.

Forester Muhammad Bakhsh, in Multan, was prosecuted under Section 405, Indian Penal Code, and imprisoned. In Hazara, 2 guards were charged, one with murder and the other with bribery, but neither case was sustained. One Forester was reduced and the services of one were dispensed with, while 14 guards were dismissed.

With the exception of Forester Natha Singh, who has done good work, no particular remarks are called for on the conduct of the non-commissioned officers in the Department.

The executive and office establishments have, on the whole, given satisfaction.

There was no change in the strength of the subordinate establishment, but after the close of the year, proposals for a substantial increase were submitted in compliance with Government of India, Circular No. 2 F., dated 28th January 1891.

## 2.—General Protection and Breaches of Forest Laws.

Forest offences

21. The following statement compares the number and nature of Forest cases of the year under report with those of the year previous :—

| Nature of offences. | Number. | | Increase. | Decrease |
|---|---|---|---|---|
| | 1889-90. | 1890-91. | In 1890-91. | |
| Injury to forests by fire ... | 92 | 162 | 70 | ... |
| Unauthorized felling, &c ... | 567 | 584 | 17 | ... |
| Grazing without permission ... | 318 | 356 | 38 | ... |
| Other offences ... | 129 | 109 | ... | 20 |
| Total ... | 1,106 | 1,211 | 125 | 20 |

There was a net increase of 105 cases against a decrease of 242 during 1889-90, including 32 occurring in the Kotkhai and Kotguru reserved forests and Jutogh plantation, now entered for the first time. The prosecutions for injury to forests by fire show the large increase of 70, but are chiefly cases in connection with the disastrous fires noted in last report, brought to Court and decided during the year under review.

Unauthorized felling has increased by 17, and illicit grazing by 38 cases; both are, however, still under the figures of 1888-89. There has been a decrease in other offences of 20.

Other offences were :—

| *Nature of offences* | *No.* |
|---|---|
| Rescue of cattle ... ... ... ... | 37 |
| Illicit cultivation ... ... ... | 23 |
| Against river rules ... ... ... | 17 |
| Assault on Forest officials .. ... .. | 4 |
| Miscellaneous ... ... .. ... | 28 |
| Total ... | 109 |

The increase in fire cases occurred chiefly in the Rawalpindi and Hazara Districts, where there were respectively 35 and 27 more than last year, due to the prolonged and severe hot weather of 1890.

Illicit grazing increased mainly in Chenab and Chamba. In the former, it rose by almost 50 per cent. in consequence, it is said, of the small punishments awarded in the Gujrat District. In Chamba the increase is attributable to the fact of the Raja not acknowledging offences of this nature, to which attention has been given and the matter, it is hoped, satisfactorily settled.

There were fewer cases of unauthorized felling in Bashahr and Jhelum, but more in Rawalpindi, Simla and Chenab.

Other offences decreased, notably in Bashahr, where there were less cases of "Korali" cultivation.

It is satisfactory to note that the percentage of convictions was again higher than last year, being 82 against 78·5: out of a total of 1,127 prosecutions, 925 were successfully carried through. These prosecutions involved 5,855 persons and 76 villages, of whom 4,838 persons and 67 villages were punished against 2,065 persons and 2 villages during the year previous. The large increase is due to the number of fire cases, in which general responsibility was enforced.

The highest percentages of 95 and 98 were obtained in the Ambala and Bashahr Divisions, while Chenab was again the lowest with 68.

The large number of pending cases in the Bashahr Division is receiving attention.

Cases compounded.

22. The following statement gives the result of the action taken under Section 67 of the Forest Act:—

*Cases Compounded.*

| Divisions. | 1889-90. | 1890-91. | | | | Average per case. | | |
|---|---|---|---|---|---|---|---|---|
| | No. of offences. | No. of offences. | Amount for which compounded. | | | | | |
| | | | Rs. | A. | P. | Rs. | A. | P. |
| Rawalpindi ... ... ... ... | 514 | 622 | 2,690 | 14 | 3 | 4 | 5 | 3 |
| Jhelum ... ... ... ... | 325 | 237 | 644 | 4 | 0 | 2 | 11 | 6 |
| Chenab ... ... ... ... | 30 | 25 | 205 | 9 | 6 | 8 | 3 | 7 |
| Lahore ... ... ... ... | 8 | 15 | 33 | 4 | 0 | 2 | 3 | 6 |
| Multan ... ... . ... | 3 | 10 | 37 | 12 | 0 | 3 | 12 | 5 |
| Total ... | 880 | 909 | 3,611 | 11 | 9 | 3 | 15 | 7 |

Rawalpindi again shows an increase, owing to the large amount of illicit grazing, which was the cause of 438 cases involving 10,035 head of cattle, out of the 622 compounded, and to the vigorous use of his powers under the section by the Divisional Officer.

In Jhelum the continued decrease is said to be attributable to better supervision, while in Lahore and Multan Divisional Officers seem to exercise their powers but seldom.

The high compensation accepted in the Chenab Division is due to the gravity of the cases compounded.

The Forest Act is not in force in Hazara, Chamba, Kulú and Bashahr; while in Kangra, Montgomery and Ambala Divisions, no use was made of the powers under this section.

The examination of the Registers of cases compounded still forms part of the Conservator's office inspections.

23. The number of cattle impounded shown in Appendix A, exhibits an increase during the year of 5,258 or 18 per cent.

Cattle trespass.

All the Divisions with the exception of Jhelum and Montgomery participate in the excess, but notably Lahore and Chenab with 2,678 and 1,583 more than in 1889-90. In Lahore the increase was confined to the Chunian and Lahore Ranges, and was due to extension of departmental grazing; while in Chenab it occurred in the Phalian Reserves and Bhera rakhs, where, in addition, many cattle seized were forcibly rescued.

In Rawalpindi an increase of 612 in the Murree and Kahuta forests is said to be due to the improved grass supply following on the large fires of 1890, and if an analysis of the number of cattle that has trespassed in these forests for some years back were possible, it would, no doubt, fully confirm the opinion expressed as to the cause of fires in this District.

### 3.—Forest Fires.

24. The results of the fire protection up to the 15th June 1891 are given in Form No. 51, while the two following statements show the number of fires and the total areas burnt and unburnt:—

Results of the year.

*Abstract showing areas (in acres) burnt and unburnt.*

| | Reserves. | Protected forests. | Unclassed State forests. | Total. | Grand Total. | Percentage of area involved. | Percentage of entire area. |
|---|---|---|---|---|---|---|---|
| Areas of which the protection was attempted but which were burnt (Form No. 51) ... ... ... ... | 889 | 150 | 648 | 1,687 | ... | 0·74 | 0·04 |
| Other areas burnt ... ... ... | 46 | 29 | 7,766 | 7,841 | ... | 0·22 | 0·21 |
| Total areas burnt ... | 935 | 179 | 8,414 | 9,528 | 9,528 | ... | 0·25 |
| Areas successfully protected (Form No. 51) ... ... ... ... | 1,26,442 | 21,578 | 77,406 | 2,25,426 | ... | 99·26 | 5·90 |
| Other areas which escaped burning ... | 9,57,015 | 2,04,863 | 24,20,511 | 35,82,389 | ... | 99·78 | 93·85 |
| Total areas unburnt ... | 10,83,457 | 2,26,441 | 24,97,917 | 38,07,815 | 38,07,815 | ... | 99·75 |
| Grand Total area of forests of all classes (Form No. 49) ... | 10,84,392 | 2,26,620 | 25,06,331 | 38,17,343 | 38,17,343 | ... | 100 00 |

*Number of fires and areas burnt in each Division.*

| Divisions | Number of fires. | | Areas burnt (in acres). | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1889-90 | | | 1890-91. | | |
| | 1889-90 | 1890-91 | Specially protected (Form 51) | Other areas | Total | Specially protected (Form 51) | Other areas | Total |
| Hazara ... ... ... | 133 | 1 | 19,680 | 3,771 | 23,451 | .. | .. | .. |
| Rawalpindi . . | 26 | 5 | 35,043 | 21 | 35,064 | 814 | 20 | 834 |
| Chamba .. ... ... | 8 | 1 | 6 | 125 | 131 | . | .. | ... |
| Kangra ... | 10 | | 515 | 470 | 985 | ... | . | ... |
| Kulu ... ... ... | 57 | 17 | 904 | 6,877 | 7,781 | | 425 | 425 |
| Bashahr ... ... ... | 70 | 16 | ... | 20,798 | 20,798 | ... | 7,211 | 7,211 |
| Jhelum ... ... ... | 3 | 1 | ... | 19 | 19 | .. | 3 | 3 |
| Chenab ... ... . | 3 | 3 | ... | 407 | 407 | | 31 | 31 |
| Lahore ... ... ... | 24 | 14 | ... | 1,343 | 1,343 | | 144 | 144 |
| Multan ... .. | 5 | 4 | 1,223 | ... | 1,223 | 648 | ... | 648 |
| Montgomery .. ... | 8 | 1 | 9 | 187 | 196 | 225 | ... | 225 |
| Ambala ... ... ... | 16 | 4 | 2,038 | 4,501 | 6,539 | ... | 7 | 7 |
| Total ... | 363 | 67 | 59,418 | 38,519 | 97,937 | 1,687 | 7,841 | 9,528 |

The area attempted to be protected has decreased by 46,380 acres.

There have been decreases of 70,528 and 22,349 acres, respectively, in the Rawalpindi and Hazara Divisions, where, owing to the favourable season and the fact of large fires having taken place last year, it was not considered necessary, in the opinion of the Divisional Officers, to resort to special measures of protection over so large an area as usual.

The main increases occurred in Bashahr and Montgomery, in which Divisions 43,127 and 9,474 acres were added.

There were also slight changes in Kulu and Multan.

Both the number and extent of fires have fallen unprecedentedly; there were in all only 67 fires extending over an area of 9,528 acres, of which only 1,687 acres were protected, against 363 with an area of 97,937 acres last year. So favourable a result has never previously been attained, and coupled with the fact of the periodicity of large conflagrations, is due to the very heavy snowfall of the winter and copious rain in April and May.

It must, however, be remembered that the prescribed period of report is peculiarly ill adapted to the Punjab, and while the above causes have undoubtedly retarded the fire season, they may yet not have secured such marked immunity, if they operate to cause a late breaking of the rains.

Of the fires reported, none occurred in Hazara, and only 834 acres, including 814 acres protected, were burnt in Rawalpindi, the two Districts most notorious for fires. By far the largest area over which fire spread, *viz.*, 7,211 acres, was on the grass slopes of the unprotected tracts in Bashahr; in Kulu only 425 acres of unprotected forest were burnt.

Multan lost 648 and Montgomery 225 acres of the protected areas, and Lahore 144 acres unprotected.

The Kalesar Forest escaped, only a small portion of the unprotected area being burnt.

General remarks

25. Notwithstanding all that has been written on the subject of forest fires in Annual Reports, special reports and reviews, but little progress appears to have been made in successfully combating the evil. It will be seen from Appendix B, giving a statement of fires during the last 10 years, that while in 1881-82, 15,633 acres were burnt, 97,937 were destroyed in 1889-90, and that during this period, fire overran the enormous area of 3,85,342 acres, or over 600 square miles.

Last year Mr. Whittall strongly advocated a vigorous application of the Rules of 1855 and 1856, fully anticipating good results; but in Hazara, as severe strictures have since years been in force, and yet, as shown by the statement appended, without improvement. It is not so much the severity of the law that will ensure success in our endeavours, as the firm administration of it by the Magistrates, and the energy and determination shown by District Officers. The remarks on fires in the Government reserves extracted in the last report on the Land Revenue Administration of the Punjab from the Hazara District report, fairly give the present position of affairs as regards that District; while from Rawalpindi the Deputy Commissioner writes with regard to the disastrous fires of 1890: "In forest fires there is no malice, "the villagers only wish to do what their forefathers have done for ages. and in "my opinion no penalties however severe will stop them. Their lives depend "on the produce of their cattle, and in order to get grass, they will continue to "burn forests whether guards be quadrupled or punishment inflicted." On the one hand, Forest Officers question the law and its administration, on the other, District Officers place little reliance on punitive measures and advise actual firing of the forests under regulation (whatever that may mean), and the opening of a larger area to grazing, admitting, at the same time, that the necessity of good grazing, is the origin of illicit firing. While these differences exist, it is hopeless to expect any amelioration of the evil.

Result of action taken on fires of 1890

26. In almost all the numerous cases of forest fires which occurred last year in the Hazara and Rawalpindi Districts, punishment was duly awarded. In the former, under Section 28 of the Hazara Regulation, No. II of 1879, 4 persons and 67 village communities were fined to the extent of Rs. 4,028; while in the latter, there being no provision under Chapter I or IV of the Forest Act applicable to cases in which actual offenders could not be traced, recourse was had to Section 78 of the Act, and fines amounting to Rs. 3,014 inflicted on 2,121 persons, averaging Re. 1-8-0 per individual. This section seems inappropriate, but, while cases are undoubtedly more difficult to prove under it, it is questionable whether severer punishments would have been given under the rules of 1856, and the adequacy of the sentences may well be doubted.

## 4.—Grazing and Fencing.

General remarks on grazing

27. The statement of areas closed to grazing has, this year, been supplemented, in the manner indicated in para. 7 of the Punjab Government review on the report of last year, by the addition of a column showing the total area of each class of forest included in each Division, while the figures have also been given in square miles instead of in acres. A further column has also been introduced showing the area open to unrestricted grazing.

A comparison of the totals of the areas affected should, therefore, now be an easy matter, though, in consequence of the substitution of square miles for acres, it is still somewhat laborious as regards detail. The difficulty will, however, disappear in future years; but the alteration renders it impossible to introduce areas of less than half a square mile in extent.

The total area affected has increased by 69 square miles, in reserves by 6 and in unclassed by 63, and now stands at 1,751 square miles, or 29 per cent., out of a total of 5,964 square miles of forest of all classes on the books of the Department.

Of this area 885 square miles, or 15 per cent., are entirely closed and 866, or 14 per cent., partially; while 4,213, or 71 per cent., are open to grazing without any restrictions whatsoever.

The following statement shows these areas apportioned to the different classes of forest, and compares them with the figures of 1889-90 :—

| | *Entirely closed.* | | | | *Partially closed.* | | | | *Total area affected.* | | | | *Altogether open.* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1889-90. | | 1890-91 | | 1889-90 | | 1890-91. | | 1889-90. | | 1890-91 | | 1889-90. | | 1890-91. | |
| | Square miles | Per cent. | Square miles. | Per cent. | Square miles | Per cent. | Square miles. | Per cent. | Square miles | Per cent. | Square miles, | Per cent | Square miles | Per cent. | Square miles | Per cent. |
| Reserves ... ... | 711 | 42 | 803 | 47 | 494 | 29 | 408 | 24 | 1,205 | 71 | 1,211 | 71 | 489 | 29 | 483 | 28 |
| Protected ... ... | .. | .. | ... | ... | 94 | 26 | 94 | 26 | 94 | 26 | 94 | 26 | 264 | 73 | 260 | 73 |
| Unclassed ... ... | 103 | 3 | 82 | 2 | 280 | 7 | 364 | 9 | 383 | 10 | 446 | 11 | 3,537 | 90 | 3,470 | 89 |
| Total ... | 814 | 14 | 885 | 15 | 868 | 14 | 866 | 14 | 1,682 | 28 | 1,751 | 29 | 4,290 | 72 | 4,213 | 71 |

The differences of the year in the kinds of closures have been an increase of 71 square miles completely closed throughout the year and a decrease of 2 square miles partially closed ; the latter comprising a decrease of 82 square miles closed to all animals for a part of the year, an increase of 77 and 63 square miles, respectively, closed to browsers and camels only, and a decrease of 60 square miles closed to browsers only for a part of the year.

In Divisions, the changes requiring notice, are, the partial closing, during the rains, of additional areas of 69 square miles unclassed and 8 square miles reserved areas, and the throwing open of 18 square miles closed throughout the year, and 11 closed to browsers only in the Lahore Division, and the complete closure of 3 square miles, and closure to browsers only and to other animals for a part of the year only, of 11 square miles more in the Montgomery Division, representing the new Sohag reserve.

In the Multan Division large differences in kinds of closure resulted in an increase of 7 square miles to the total area affected, while in Rawalpindi 83 square miles of the Kala-Chitta forest were transferred from partial to complete closures, and 62 square miles were closed to camels only throughout the year, instead of to browsers only for a part of the year. Several changes in closures in the Chenab Division decreased the area of reserves affected by 6 square miles, and the total area by 367 acres only.

It is satisfactory to record that the people are beginning to appreciate and to recognize the beneficial results of the management of its grazing areas by the Department. From Jhelum, it is reported, that theze mindars, realizing the advantages accruing to thes urrounding population through the closing of rakh Nurpur, have, themselves, asked for the complete closure to grazing of 14,173 acres in order to preserve the winter supply of grass, while in Montgomery, the material assistance afforded in times of scarcity, is slowly removing the general distrust in forest conservancy.

The advantages, too, of partial closing, such as practised during the year in the Lahore Division, both to the people at large, in furnishing a better supply of grass, and to the Department itself, in the way of greater profits, are encouraging.

| DIVISIONS. | I. Total area of the Division. | | | II. Areas closed, or partially closed in 1890-91. Closed to all animals throughout the year. | | | III. Closed to all animals for a part of the year, but open to all animals for the remainder of the year. | | | IV. Closed to browsers (only) throughout the year. Closed to all other animals for a part of the year only. | | | V. Closed to browsers (only) throughout the year. Open to all other animals throughout the year. | | | VI. Closed to Camels (only) throughout the year. Closed to all other animals for a part of the year only. | | | VII. Closed to Camels (only) throughout the year. Open to all other animals throughout the year. | | | VIII. Closed to browsers (only) for a part of the year. Closed to all other animals throughout the year. | | | IX. Closed to browsers (only) for a part of the year. Open to all other animals throughout the year. | | | X. Total area affected. | | | XI. Area open to grazing without restriction. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. | Reserved. | Protected. | Unclassed. |
| Hazara ... ... ... | 236 | ... | .. | 141 | ... | ... | .. | ... | ... | 21 | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 162 | ... | ... | 74 | ... | ... |
| Rawalpindi ... ... | 345 | 68 | 245 | 216 | ... | 1 | ... | ... | ... | 18 | ... | .. | 29 | 67 | ... | ... | ... | ... | 62 | ... | ... | ... | ... | ... | .. | 1 | ... | 325 | 68 | 1 | 20 | ... | 244 |
| Chamba... ... ... | 158 | ... | 14 | 12 | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 12 | .. | ... | 146 | .. | 14 |
| Kangra ... ... ... | 56 | ... | 591 | 47 | ... | 5 | 5 | ... | 2 | 2 | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | 56 | ... | 7 | - | ... | 584 |
| Kulu ... ... ... | . | ... | 1.157 | | .. | 31 | ... | ... | 1 | ... | ... | 2 | ... | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... | 14 | ... | ... | 8 | ... | ... | 59 | ... | ... | 1,098 |
| Bashahr ... ... | 162 | ... | 241 | 59 | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | . | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 59 | ... | ... | 103 | ... | 241 |
| Jhelum ... ... .. | 302 | ... | 208 | 165 | .. | | ... | ... | .. | .. | ... | .. | 3 | ... | 28 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 168 | ... | 28 | 134 | ... | 180 |
| Chenab ... ... ... | 136 | 286 | 242 | 23 | ... | 31 | ... | ... | 20 | 44 | ... | .. | 63 | 26 | 25 | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 130 | 26 | 76 | 6 | 260 | 166 |
| Lahore ... ... ... | 43 | ... | 296 | 15 | ... | 3 | ... | ... | ... | 16 | ... | 69 | 12 | ... | 100 | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 43 | ... | 172 | ... | ... | 124 |
| Multan ... ... ... | 124 | ... | 163 | 62 | ... | 10 | 2 | ... | ... | 57 | .. | 62 | 3 | ... | 30 | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | 124 | ... | 102 | ... | ... | 61 |
| Montgomery ... ... | 100 | ... | 758 | 47 | ... | ... | ... | ... | ... | 53 | .. | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | 100 | ... | ... | ... | ... | 758 |
| Ambala ... ... ... | 19 | ... | 1 | 14 | ... | 1 | ... | ... | ... | 5 | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | . | ... | ... | .. | 19 | ... | 1 | ... | ... | ... |
| Kotguru and Kotkhai ... ... | 13 | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | 11 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 13 | ... | ... | ... | ... | ... |
| Total ... Square ... | 1,694 | 354 | 3,916 | 803 | .. | 82 | 7 | ... | 23 | 216 | ... | 133 | 121 | 93 | 186 | 2 | ... | ... | 62 | .. | ... | ... | ... | 14 | ... | 1 | 8 | 1,211 | 94 | 446 | 483 | 260 | 3.470 |
| Total ... miles ... | 5,964 | | | 885 | | | 30 | | | 349 | | | 400 | | | 2 | | | 62 | | | 14 | | | 9 | | | 1.751 | | | 4,213 | | |
| Total for 1889-90 Square ... ... | 1,694 | 358 | 3,920 | 711 | ... | 103 | 90 | ... | 22 | 168 | ... | 56 | 173 | 93 | 182 | 1 | ... | ... | ... | ... | ... | ... | ... | 12 | 62 | 1 | 8 | 1,205 | 94 | 383 | 489 | 264 | 3.537 |
| Total for 1889-90 miles ... .. | 5,972 | | | 814 | | | 112 | | | 224 | | | 448 | | | 1 | | | ... | | | 12 | | | 71 | | | 1,682 | | | 4,290 | | |

28. There was little new fencing done during the year, the operations under this head being almost entirely confined to the maintenance of existing fences.

Fencing.

In Kulu the wire fencing round the Manali forest was renewed at a cost of Rs. 145, and in Bashahr the area planted in the Rammi forest and 200 acres of the Mazgani forest were enclosed, the former costing Rs. 65 ; Rs. 63 were also spent on repairs in this division.

In Chamba repairs were carried out at an expenditure of Rs. 128.

5 —NATURAL REPRODUCTION.

29. *Hazara.*—There is little new to record in Hazara, and fresh observations, if made, have not been reported This is to be regretted as several selected areas were marked off, and the existing seedlings carefully counted in the silver fir tracts of the Gali forests in the autumn of 1889, with a view to determine the percentage and the cause of constant failures among the seedling class of this species, remarked on in former reports, and in paragraph 23 of last year's report in comparison with similar forests in Chamba. No solution of this vexed question has, however, apparently been come to, but the non-persistence of the seedlings is probably due to situation and climatic influences, such as heavy snowfall and deficient moisture in spring, while the young plants have also, in moister years, to contend against a most profuse and suffocating growth of *Strobilanthes alatus*, balsam and other herbaceous vegetation. The whole of the Gali forests are not, however, so devoid of the younger age classes as former reports appear to indicate, for where the physical conditions are more favourable, they are well represented and seedlings have permanently established themselves. Still the question as to whether an open or more complete canopy is most suitable to the silver fir remains unsettled.

Natural reproduction in the hills

Reproduction in Kaghan is again recorded as very satisfactory, especially in closed areas; while the blue-pine and broad-leaved species continue to flourish in the Dungagali Range. The Chil has suffered much through the disastrous fires of 1890, and yearlings have been totally destroyed over a very large area, while advance growth, up to 4 and 5 years old, has only here and there escaped.

In the Khanpur forests last year's remarks still apply, but it may be added that though the Sanhatta reproduces itself readily from seed, it is not, as noted in paragraph 10 of the Government of India's review on the report for 1889-90, a species that coppices well, except when felled too young to be of any value, nor does it appear to foster seedlings of other kinds.

*Rawalpindi.*—In the Chil forests of Murree and Kahuta, natural reproduction is still very good, but here too, as in Hazara, the ravages of fire have been most destructive, and are very noticeable. The advance growth of blue-pine on the northern and eastern slopes of some of the Murree Reserves is also excellent. There is no improvement in the fuel forests of the lower hills, where, though the Sanhatta still thrives profusely, the reproduction of Phulai, Khair and Kao is conspicuous by its absence.

The oak coppice in Burhan is not doing well, but Phulai and Khair have sent out new shoots in the lower hills.

*Chamba.*—Natural reproduction, last year reported as being generally satisfactory in this Division, has suffered considerably, owing to the leasing of the reserves to grazing by the Raja. There was, in addition, an almost total failure of the deodar seed crop, which greatly restricted the work of breaking up the soil under seed bearers, while the success of former year's operations was seriously marred by the ravages of insects. In the Shahpur-Kandi Chil forests natural reproduction is very poor, owing to constant grazing.

*Kangra.*—Little can be added to what was recorded last year regarding natural reproduction in the forests then enumerated. It is still observed to be very satisfactory in the Chil forests of the Dera Range ; but in Nurpur, owing to the bad seed year, it was only poor, though seedlings of former years thrive. The bamboo forests showed great improvement, chiefly due to closure during the rains.

The reproduction of Sál is excellent in the Dera Range, and though many of the young seedlings succumb to frost and heat, a large number persist, and promise to take the place of the present ill-grown crop.

*Kulu.*—The Divisional Officer is unable to supplement the interesting account of natural reproduction in general, which was briefly discussed in last year's report. Successful natural reproduction of Deodar and Pine in several of the forests is, however, believed to be an impossibility under the grazing and r o wsing rights allowed at Settlement.

During the season the Deodar, Blue-pine and Chil seeded abundantly, but the crop of the former was not so plentiful as in 1889. The result of the seeding of 1890 is not known, though that of 1889 has been generally favourable, especially in the younger crops.

*Bashahr.*—The notes on reproduction from this Division are again scanty, owing to a change of officers at the close of the year. It is reported, however, that natural reproduction has much improved in the Neogli range, while it is, as a whole, generally good throughout the Division. Great destruction among Chil and Kail was caused by the fire of 1890 in the forest between Rampur and Gaura.

Natural reproduction in the plains.

30. *Jhelum.*—Careful observations on the part of the Divisional Officer show that the results of strict closure, both in the plains of the Jhelum District and in the Salt Range, are far more appreciable than was supposed. A large number of reserves have been critically examined during the year, and many seedlings of existing species have been found in the softer soil of the ravines and under seed-bearers on the level, though in parts, where parent trees are deficient and the ground rugged and stony, the crop is still only poor. Success is especially noticeable in the better preserved forests of Diljabba and Drengan of the Salt Range, in which many hundreds of olive seedlings of this and of previous years have been observed, and in Tilla, where there are quantities of seedlings of Phulai, Shisham, Kakkar and other trees.

It is satisfactory, and of great moment to the spread and success of natural reproduction, that the villagers appreciate the closing of the forests to grazing, as affording a greater store of grass, and have of their own accord proposed its extension.

It is perhaps this fact which was intended to be conveyed by the remarks made last year, rather than that the people were well off for grazing in their private lands.

Only four of the rakhs of the Salt Range in the Khushab tahsil are as yet closed, hence in this part there is at present little reproduction.

The year was a good one for olive seed and the rainfall propitious.

*"Bar" Rakhs.*—There is nothing to add concerning natural reproduction by seed in the "bar" rakhs of Chenab, Lahore, Montgomery and Multan. It is everywhere reported as non-existent. Even the five acres experimental plots in the Gujranwala, Gujrat, Shahpur and Montgomery Districts, set aside since 1884, show no natural seedlings.

Orders were received during the year permitting the experimental exclusion of browsing animals from a portion of the unreserved tracts of the Montgomery bar, but no areas were closed, and it is questionable whether in years of scarcity of grass, the hungry cow will not be found to be almost as destructive as the goat and sheep.

*Chenab.*—Owing to the heavy rainfall a profuse crop of Kikar and Phulai seedlings again sprang up in the Pabbi, which successfully maintaining itself through the autumn and spring, was unfortunately, eventually, destroyed by locusts. Coppice on areas felled over in this Division is everywhere successful, and in the Belas excellent.

*Lahore.*—The reproduction of Shisham by coppice and root shoots in Changa Manga and Shahdera is most excellent, and that of other species in the Chunian Range, satisfactory. The natural introduction of the Mulberry in those portions of the plantations that have been cut over is very remarkable, and is assuming considerable proportions.

*Multan.*—The remarks made in last year's report on natural reproduction in the Multan Division apply equally to the year under review. Seedlings still appear in the moister places, but their persistence depends on the chance of occasional water, and it is not said in how far existing reproduction by seed has maintained itself. Coppice on areas felled over during the year, as also in previous years, is reported to be most successful; in some instances Jhand and Farash, felled in October 1890, have already reached a height of 2½ and 4 feet, respectively.

The experiment of obtaining a growth of root-suckers by trenching round Jhand was not extended, and according to the Divisional Officer, it would seem that not only is it impossible to reduce the cost below Rs. 10 per acre, but it appears doubtful whether the shoots thus raised can maintain themselves. It has been observed during the year that, although the shoots from the stool continue to thrive, the root-suckers in the trenches dug round the stools are gradually withering, and it is questionable whether those remaining will survive.

No reason is assigned for this decay, which requires further study before the method can be acknowledged to be a failure, and experiments of a similar nature have been instituted in the Lahore Division, but were not sufficiently advanced to pronounce upon them. The Divisional Officer is, however, of the opinion that the cost of the method would in any case prohibit its adoption on an extended scale.

*Montgomery.*—In this Division the remarks made last year have not been further considered, and it is merely reported that coppice is on the whole satisfactory.

*Ambala.*—It is to be regretted that natural reproduction in the protected portions of the Kalesar forest, previously reported as so satisfactory, has been seriously damaged by the disastrous fires of last summer, and will take years to recover.

### 6.—Artificial Reproduction.

General remarks.

31. According to form 52 the artificial reproduction operations of the year extended over an area of 1,696 acres, and after allowing for 1,548 acres failures, increased the total area stocked by 148 acres, from 20,857 acres at the beginning of the year to 21,005 at the close.

As remarked, however, in para. 25 of last year's report, the form, as at present prepared, does not show clearly the real work of the year. It includes for instance, notably in the Chamba, Chenab and Ambala Divisions, as areas added during the year, the replenishing of existing plantations, which would more properly appear in the remark column.

Thus out of the 1,696 acres above-mentioned, new work was carried out over an area of 1,164 acres only; the remaining 532 acres, less 26 added by remeasurement, representing the extent of repairs.

Moreover, from these 1,164 acres, 387 were at once struck off on account of failures, hence the real additions of the year are 777 acres.

The total expenditure of the year under artificial reproduction amounted to Rs. 28,422 against Rs. 27,646 during the year previous.

The operations of the year, with the exception of those undertaken in the Multan Division, have been, so far as ascertainable, fairly successful.

Existing plantations too, have, for the most part, progressed; but the plantations in the hills, especially those in the Dungagali Range of the Hazara Division, suffered from an exceptionably heavy snow-fall.

Regular plantations

32. The net addition to regular plantations was 12 acres only, compared with 70 acres during the year previous. But, as explained above, new work actually covered 12 acres, while 349 acres of the Dagshai and Sabathu plantations were restocked.

The cost of works of this nature during the year was Rs. 23,161 against Rs. 21,772 in 1889-90. The largest expenditure was, as usual, incurred in the Lahore Division, where Rs. 20,737 were spent on the Ghanga Manga plantation, of which Rs. 2,804 were on account of the extension of irrigation in connection with the scheme to cost Rs. 50,000 proposed in Mr. D'Arcy's revision of the Working Plan of 1886, and sanctioned in Government of India No. 546 F., dated 30th June 1890.

The Dagshai, Sabathu and Phillour plantations in the Ambala Division cost Rs. 1,633, while Rs. 199 were spent in the Bashahr Division on orchards.

Cultural operations.

33. Cultural operations extended over an area of 1,323 acres, including 145 acres previously undertaken and 26 added by remeasurement; 1,175 acres have been deducted on account of failures and 12 from river action; the net gain is therefore only 136 acres.

The chief works were carried out in the Multan, Chenab and Chamba Divisions.

In Multan they were not successful, and 399 acres have been struck off during the year, out of 634 taken in hand; a result to be expected, when so large an area as 530 acres is sown for so small an outlay as Rs. 17.

In the Arbi grass Preserve of this Division, 3½ miles of trenches were cleared of silt for irrigation purposes at the large expenditure of Rs. 450.

In Hazara 10,000 Deodar plants were put out, and 31 acres sown with Deodar in Kaghan; 2,025 Deodar and 47 Cypress were also transplanted at Changlagali, while in Khanpur 125 acres were sown with Phulai and Olive in the fuel forests of Garmthun and Jawalian, of which, however, the success is doubtful.

The provisions of the Working Plan were not adhered to in the Murree and Kahuta Forests in the Rawalpindi Division in consequence of plants not being available.

This cause, and scarcity of seed also, led to 15 acres less being planted in Chamba than prescribed.

The propagation of the Bamboo, by sowing in ghurras and transplanting in the rains, is found to be more satisfactory than root planting in the Kangra Division, and 4 acres were successfully treated on this method at a cost of Rs. 146.

In Kulu numerous petty sowings and the transplanting of 10,560 Deodar aggregated 60 acres; only 12 acres were deducted as failures, while no remarks have been offered by the Divisional Officer, in qualification of the statement made last year, regarding the non-success of previous attempts at artificial reproduction, alluded to in paragraph 11 of the review of the Government of India.

In the Chenab Division operations in the Pabbi consisted in the sowing of 32 acres by the usual method, and the re-stocking of 24 acres blanks; 53 acres were also similarly treated in the Bhera rakhs and 33 sown broad cast, while 55 acres blanks were replenished; germination is reported to have been good, but the young seedlings were subsequently attacked by locusts and partially destroyed.

Twenty acres were sown with Oak, in pits, in the plantation lately taken over at Jutogh, and 160 Deodar and 600 Paja (Prunus Padus) put out.

The total expenditure of the year on cultural operations amounted to Rs. 5,261 against Rs. 5,874 during last year. Rs. 1,642 were spent in the Chamba Division and Rs. 1,043 in Chenab; the works undertaken in the Pabbi costing Rs. 781.

### 7.—Early Thinnings, Removal of Inferior species, Cutting of Creepers, &c.

Work of the year.

34. Operations of this nature are confined to the hill forests; in the plains there is nothing to remove, and vegetation however insignificant, is carefully preserved.

The work of the year comprised the removal of inferior trees from off 4,841 acres in the Chamba Division at a cost of Rs. 747; the cutting of 7,000 creepers in Hazara and 710 in Kangra, and the thinning of 2 acres in the latter Division.

As mentioned last year, such work requires careful and intelligent supervision, and as this could not be given in the Rawalpindi Division, the prescriptions of the Working Plan were in this respect not fulfilled in that Division.

8.—Experiments and Exotics.

General remarks

*35. Experiments and exotics of previous years are reported generally to have made progress, but nowhere has any new work been initiated during the year by Divisional Officers.

The work of the year has been the introduction of the *Robinia pseudo-acacia* and the *Albizzia lophanta*. At the suggestion of the Inspector-General of Forests, Mr. Ribbentrop, 225 lbs. of Robinia were procured from Italy, and 40 lbs. Albizzia from Australia, and made over to Mr. McIntire for distribution and trial. Of this quantity, 70 lbs. of the former and 15 of the latter, were given away outside the Department, while in the Department 30 lbs. Robinia and 7 lbs Albizzia were divided between the Hazara, Rawalpindi, Kangra, Chenab and Ambala Divisions, the balance being retained by Mr. McIntire for Simla and Jutogh.

The seed was received in March 1890 and was of excellent quality; but unfortunately it appears not to have reached the officers concerned till late in June or early in July; consequently, it was sown at a wrong season, and the results of the experiments as a whole have not been successful.

Sufficient has, however, been learnt to raise hopes of the suitability to some parts of the Province of the Robinia and of its ultimate success when properly treated, and a further supply of seed has been enquired for from Italy.

Eucalyptus eugenoides
" globulus.
" goniocalyx
" macrorrhyncha.
" marginata.
" obicularis.
" polyanthema.
Acacia holoserica.
" pycnantha
Medicago orbicularis (Pasture plant)

A small quantity of the seeds named in the margin, obtained from Australia, was also received from the Inspector-General of Forests, and distributed—the Eucalyptus and Medicago to the Lahore Division and the Acacia to Mr. McIntire at Simla. The latter were sown at Simla and Jutogh, but had not germinated by the end of the year. The Eucalpytus were sown in pots at Changa-Manga in October 1890 and February 1891. All but macrorrhyncha germinated, but the seedlings died off, except globulus and polyanthema, the former of which it is known will not thrive in the plains. Medicago has not yet germinated.

It may be remarked that of these species Eucalyptus globulus is established, and now seeds in the Panjab, as is also the case with this kind, and goniocalyx and polyanthema and Acacia pycnantha in the Lee garden at Kulu.

Special remarks:—
Robinia pseudo-acacia.

36. The Robinia germinated freely wherever sown, but the best results in raising seedlings and in transplants, appear to have been attained at the Annandale Gardens at Simla and at Jutogh. In the Rawalpindi Division it was sown at elevations of 2,000 to 5,000 feet but without success, except at Ghoragali, where, however, though in Hazara and Simla it easily withstood the cold and snow, it is said to have been killed by the latter, and only 4 plants remain of 1 foot in height. In Hazara pots did well at Changlagali and Abbottabad, 8,000 and 4,000 feet, also nurseries at Khanpur, but direct sowings in the latter locality produced only sickly plants. It failed in the Hoshiarpur Chos in the Kangra Division, while in nurseries watered and well cared for at Dera a good many plants were kept alive. Direct sowings in the Pabbi shared a fate similar to that of those in the Chos, but a number of plants were raised in pots and transferred to Wazirabad, where apparently thriving, they were eventually eaten by locusts. In the Ambala Division sowings took place at Dagshai in nurseries, and on 3 acres in the plantations between Chil, on north and south aspects, but after the first month many had died, and out of 6,546 plants counted at the end of August only 220 now remain. At Simla sowings in the rains, in pits at 5,500 to 7,000, gave 10 per cent success at the end of November, and the young seedlings withstanding the winter, were in leaf in April, but it remains to be seen how

they will endure the hot weather; at 8,000 feet they entirely failed. Late winter or early spring sowings and transplanting at a similar time, when 1 year old, seem the most suitable to this species.

Albizzia lophanta

The result of the Albizzia lophanta trials has not, as a rule, been separately noted. In the Ambala Division 4 lbs. sown at Sabathu in July, on different aspects, were fairly successful up to September, but recent countings show that only 54 plants have survived out of 2,624 alive in August. Sowings at Simla, germinating well, were eventually completely destroyed by frost.

Eucalyptus species

At Abbottabad ten different species of Eucalyptus, among which is the Globulus, have grown to a good size, and these trees now furnish seed in sufficient quantities for distribution to other stations. Thus the Divisional Officer of Hazara collected recently at the trifling cost of Rs. 5, some 220 ounces of Eucalyptus seed from these trees, the value of which at Lahore prices is about Rs. 600. Some of the seed was sent to Quetta and Upper-Burma.

The rapid growth of the Eucalyptus tree at Abbottabad is illustrated by the following table.

Raised from seed: April 1886.

Transplanted: March 1887.

| | *Date* | *Girth.* In inches. | *Height.* In feet. | *Age in months.* |
|---|---|---|---|---|
| April ... ... | 1888 | ... | 8 | 13 |
| May ... ... | 1889 | 5½ | 16¼ | 26 |
| November .. ... | 1889 | 9⅓ | 27 | 32 |
| May ... ... | 1890 | 10⅝ | 30¼ | 38 |
| June ... ... | 1891 | 15 | 39¾ | 51 |

Enquiries prove that in this station a girth of 5 feet 2 inches, and a height of 63 feet, with a volume of 49 cubic feet can be attained in 21 years, and, as the tree coppices well and the wood, when dry, is fairly good for burning, fuel plantations in suitable localities would be most remunerative. At Dera, in the Kangra Division there are several trees raised from seed sown in 1887, and at Sholtu in Bashahr certain kinds are a great success.

The Lee garden in Kulu also contains several species thriving well, and seed of the Stuartiana and longifolia, obtained from there, have succeeded at Abbottabad.

Castanea vesca

Spanish chestnuts thrive in Kulu and Bashahr and now bear fruit, which is being utilised in the further propagation of the species with a view to distribution, and a more general introduction among the people. The cultivation is not difficult, but as the seed will not keep, it is essential that it be used when fresh. Experiments in Kulu fully exemplify this precaution, where seed of 1888 did not germinate, while that of 1890 partially succeeded. At Kilba and Nachar about a maund of chestnuts were collected.

Cupressus torulosa.

A large quantity of Cypress seed was collected in 1888 from 2 trees growing at Abbottabad, and seedlings raised therefrom have been planted out and in some cases are 2 feet high.

European trees.

The following species have also been successfully raised in pots at Abbottabad, from seed obtained privately from the Lee garden in Kulu and from Europe:—

Cupressus govensiana, Catalpa bignonioides, Quercus pedunculata, Acer platanoides, Cytisus Laburnum, Spartia scoparium, Abies Douglasii, and pectinata, Larix Europæa, Picea excelsa, Pinus Austriaca, Laricio, sylvestris, Pumilio, maritima, Strobus and Cembra. Acer pseudo-platanus, Tilia parvifolia, Fraxinus excelsior and Cratægus oxyacantha did not succeed.

Dates

Date palms have been very successful at Dera and Nurpur in the Kangra Division; at the latter place porcupines were very destructive.

Vines

Three thousand vine cuttings of different varieties procured by the Superintendent, Hill States, were planted out in the Bashahr Division.

Fruit and ornamental trees

The nurseries at Sholtu in Bashahr and at Dera and Nurpur in the Kangra District continue to succeed. From Dera 2,000, and from Nurpur 310 plants were distributed for road avenues and to the people.

Quercus Suber.

With regard to the remarks made in paragraph 9 of the Review of the Punjab Government and in paragraph 15 of that of the Government of India on the Report for 1889-90, it may be noted that trials have already been made of the Cork-oak in previous years, and that a few trees raised from seed sown in 1876 and planted out in 1878, exist in the Lee garden in Kulu and averaged 12 feet in height and 2 feet in girth in 1888-89. It was also sown at Manali in 1874, but no trees now remain. Of some planted at Dhobi, also in Kulu, in 1876 one succeeded very well and measured 19 inches in girth in 1890 but it was, unfortunately, destroyed by the heavy snow of last year.

Podophyllum Emodi.

Sixty-three broken roots of the Indian species of the Podophyllum plant, from which the larger portion had been collected for medicinal purposes, were planted at Changlagali in order to test the capabilities of the plant of producing new roots and the experiment proved fairly successful.

## 9.—Communications and Buildings.

Roads and bridges

37. The expenditure of the year on roads and bridges compared with that of the year previous, was as follows :—

| | 1889-90. | 1890-91. |
|---|---|---|
| | Rs | Rs. |
| New construction ... ... ... | 3,582 | 5,922 |
| Repairs ... ... ... | 2,711 | 1,997 |
| Total ... | 6,293 | 7,919 |

Of this sum Rs. 5,966 were spent in the Chamba Division; Rs. 4,716 on the construction of 43½ miles new foot-paths, Rs. 705 on the preparation and collection of material for a bridge over the Bhanda Istream, and Rs. 545 on repairs.

There was little new work in other Divisions; 3 miles export paths, as provided in the Working Plan, were constructed in Rawalpindi for Rs. 199, and 24 chains cart-road and 225 chains inspection paths were made in Kalesar and Dagshai, respectively. Some work was also done in Hazara and Kulu.

Buildings

38. Under buildings the expenditure was :—

| | 1889-90. | 1890-91. |
|---|---|---|
| | Rs. | Rs. |
| New construction ... ... ... | 2,056 | 2,921 |
| Maintenance ... ... ... | 3,466 | 3,391 |
| Total ... | 5,522 | 6,312 |

The principal expenditure was incurred in the Chamba Division, where new quarters were built for the Bhandal and Tisa Rangers and the out-houses belonging to Bhent, Bakani and Manjir Rest-houses completed at a cost of Rs. 630; Rs. 583 being spent on repairs.

Of an expenditure of Rs. 761 in the Rawalpindi Division, Rs 261 were spent on re-roofing the Goragali house with iron and Rs. 260 on the erection there of a Ranger's quarters and office.

In Kulu 4 guard's huts cost Rs. 279, while in Bashahr new work on the Kilba, Shotlu and Khadrálá houses amounted to Rs. 450. The expenditure of Rs. 498 in Lahore and Rs. 402 in Multan was occasioned, in the former by the erection of new Beldar lines, which were completed as far as possible, and in the latter by building 7 guard's huts.

Repairs to buildings in Ambala amounted to Rs. 428, of which half was incurred on the Kalesar bungalow. A guard's hut was built in the Kotkhai forests for Rs. 68 and one at Jutogh costing Rs. 187.

## CHAPTER IV.—OUTTURN AND WORKING.

### SUMMARY OF PRODUCE REMOVED FROM THE FORESTS.

Summary of removals from the forests (Forms 54 and 55.)

39. The total out-turn of the year in timber and fuel, expressed in cubic feet solid, compares with that of the two previous years as follows :—

| | 1888-89. | 1889-90. | 1890-91. |
|---|---|---|---|
| Removed by Government Agency ... ... ... | 24,44,340 | 26,06,109 | 29,55,869 |
| Do. by purchasers ... ... ... ... | 66,83,486 | 31,97,793 | 19,40,563 |
| Do. under free grants ... ... ... ... | 3,39,11,036 | 7,59,300 | 1,13,226 |
| Do. by right-holders ... ... ... ... | | 2,04,54,259 | 2,67,13,861 |
| Total ... | 4,30,38,862 | 2,70,17,461 | 3,17,23,519 |

There has thus been an estimated net increase of 47,06,058 cubic feet on the total out-turn, due chiefly to a very large, but only nominal, increase in the quantity of firewood removed by right-holders from the Bashahr Forests, in which Division incorrect factors of conversion were used last year.

It must still be borne in mind that the figures for 1888-89 show fuel in cubic feet stacked.

The comparative value of minor produce removed during the last three years is :—

| | 1888-89. | 1889-90. | 1890-91. |
|---|---|---|---|
| | Rs. | Rs. | Rs. |
| Removed by Government Agency ... ... ... | 13,518 | 16,759 | 13,061 |
| Do. by purchasers ... ... ... ... | 2,18,817 | 2,08,396 | 2,29,929 |
| Do. under free grants ... ... ... ... | 4,61,718 | 2,174 | 6,801 |
| Do. by right-holders ... ... ... ... | | 2,19,131 | 2,27,128 |
| Total ... | 6,94,053 | 4,46,460 | 4,76,919 |

which shows that there has been an increase of Rs. 30,459 in the estimated value of minor produce removed from the forests during the year, mainly attributable to larger sales of grazing.

### 1.—DEPARTMENTAL OPERATIONS.

General remarks.

40. The yield of the year from forests worked departmentally has been greater by 3,49,760 cubic feet than during last year, owing chiefly to the completion of exploitation works commenced in 1889-90 in the Chamba forests.

Explanation by Divisions.

41. The following are the main differences among Divisions :—

More extensive fellings in Kaghan and a larger delivery of fuel increased the yield of the Hazara forests by 63,600 cubic feet, which was, however, reduced to 56,998 cubic feet, consequent on the small demand for scantlings from the Gali forests.

The Chamba forests yielded 3,08,329 cubic feet more, due to the conversion of trees left felled in 1889-90 alluded to above, which brings the exploitation works in this Division on a level with the prescriptions of the Working Plan.

Lahore, owing chiefly to reversion to departmental conversion into fuel of the out-turn of Shahdera, gave 91,579 cubic feet more; while extended fuel operations in the Kabirwala Range of the Multan Division increased the yield of that Division by 80,757 cubic feet.

Against this excess yield, scarcity of exploitable Deodar in Kulu and less extensive operations in Bashahr caused a decrease of 49,845 and 1,01,240 cubic feet of timber, respectively, while in fuel there was also a decrease of 39,620 cubic feet in the Montgomery Division owing to difficulty of transport across the river.

Of the agencies in the plains, Ambala for Bashahr shows 1,838 cubic feet more received, due to more timber coming down, while Jhelum for Hazara and Kangra for Kulu secured and collected in depôts, 71,521 cubic feet and 82,861 cubic feet, respectively, less than last year, owing, in the case of the former, to failure of floods, and in that of the latter, to the sleepers, which ordinarily would have been received during the year under report, coming to hand as early as March 1890 and to restricted fellings in Kulu, where smaller girthed logs were also launched.

These transactions do not appear in Form 54, but are shewn in Form 56.

In Kangra, the out-turn of bamboos was 15,760 less than last year.

The value of minor produce removed by Government agency fell, during the year, by Rs 3,698, from Rs 16,759 to Rs. 13,061, and thus approached the figures of 1888-89.

### 2.—Removal of Produce by Purchasers.

General remarks (Forms 54 and 55.)

42. Removals of timber and fuel by purchasers, have, as shown in the abstract in paragraph 39, decreased during the year by 12,57,230 cubic feet. This is chiefly attributable to the introduction of departmental fuel works in Montgomery, Multan and Lahore, and to the stoppage of sales of firewood from the Hafizabad rakhs in favour of the anticipated colonization.

Explanations by Divisions.

43. Hazara shows an increase of 13,212 cubic feet fuel, while the utilization of windfalls, caused by an extraordinary heavy storm in June 1890, from the unclassed forests of the Kangra Division, raised the out-turn of that Division by 32,374 cubic feet. In Kulu the sale of fewer Deodar and Pine trees, but of larger quantities of miscellaneous trees and pieces, resulted in an increase of 2,654 cubic feet. 2,554 cubic feet more were also obtained in Ambala by the extraction and sale of old stools from the Phillour plantation.

Rawalpindi shows a decrease of 35,568 cubic feet, due to the difficulty of supervising sales of dry fallen wood and to the non-sale of poles from boundary lines in Kahuta; also to there being no demand for the fuel from 670 acres out of 1,178 acres prescribed to be cleared by the Working Plan, which consequently remained unfelled.

An early fall of snow in the Chamba Division caused 43,109 cubic feet less fuel to be removed from the Kalatop forest. In the Chenab Division the discontinuance of fellings in the Hafizabad reserves already mentioned, reduced the removal of fuel by 3,26,864 cubic feet, while a return to departmental conversion of the Shahdera out-turn resulted in less removals by purchasers of 53,688 cubic feet. In the Multan and Montgomery Divisions, there are decreases of 69,833 and 7,75,940 cubic feet, respectively, due to the departmental working of the fuel rakhs, above alluded to.

The value of minor produce removed by purchasers has increased by Rs. 21,533 or more than 10 per cent, and amounted to Rs. 2,29,929 against Rs. 2,08,396 in 1889-90. To this increase the Montgomery Division alone contributed Rs. 16,072, but no special cause therefor has been assigned by the Divisional Officer; departmental management in Lahore also brought in Rs. 3,894 more.

### 3.—Free Grants of Forest Produce.

General remarks (Forms 54 and 55)

44. The abstract given in paragraph 39 shows the large reduction of 6,46,074 cubic feet in the amount of timber and fuel granted free during the year, which only aggregated 1,13,226 cubic feet against 7,59,300 last year.

The decrease is mainly in the Bashahr Division, where, as reported by the Divisional Officer, 6,24,370 cubic feet less were given away, owing to the fact that Rangers were not allowed to issue permits, and that, through transfer of charge, the people had fewer opportunities of making applications direct. In Jhelum a reduction of 21,398 cubic feet was chiefly due to a change in the factor of conversion. In Kulu, where 6,074 cubic feet less were given gratis for local works, future supplies of this nature have been regulated by Government letter No. 314 of 25th July 1890.

The value of minor produce granted free has more than trebled itself owing to the removal by the Public Works of 25,15,555 cubic feet of stone, valued at Rs. 6,289 from the reserves of the Jhelum division.

4.—Removal of Produce by Right-holders.

Timber and Firewood.

45. The estimates for the year of timber and firewood removed by right-holders amount to 2,67,13,861 cubic feet and exceed the figures of last year by 62,59,602 cubic feet. Excepting 74,308 cubic feet in Kotkhai and Kotguru, this increase is entirely due to the more correct conversion of maunds into cubic feet solid in the case of firewood in the Bashahr Division, already mentioned in paragraph 39.

With the above exceptions, all other Divisions burdened with rights show a decrease, which in Kulu and Jhelum amounts to 4,29,885 and 2,04,245 cubic feet, respectively.

In Kulu, while last year's estimates for firewood were adhered to, the grants of timber were much less than in previous years and fell, by nearly 50 per cent, from 8,81,105 cubic feet to 4,51,220 owing to the fact, that though the Forest Officer was able to make grants for building purposes in 24 out of the 48 kothis, the Assistant Commissioner could only do so in 4 kothis; still, had the whole sub-division been visited, there would probably have, nevertheless, been a decrease. Of trees previously granted 1,766 were provisionally confiscated.

In Jhelum, though really the same quantity as estimated last year was removed, a similar cause to that in Bashahr reduced the figures of the year by 2,04,245 cubic feet.

In Rawalpindi the decrease of last year has been continued, and for reasons then given aggregated 68,310 cubic feet during the year under report. In the Kangra Division also, where the forests of the Hamirpur tahsil of the Kangra District are said to be too heavily indented upon and supplied 7,824 trees out of a total of 7,830 given away during the year, stricter supervision of the grants made by the Lambardars caused a reduction of 36,139 cubic feet.

In Chamba, owing to unseasonable applications and adequate grants during 1889-90, the removals fell from 11,769 to 642 cubic feet.

Minor produce.

46. The estimated total value of the minor produce removed by right-holders has risen from Rs. 2,19,131 to Rs. 2,27,728 this year. The main increase of Rs. 6,486 is due to the exercise of rights allowed at the recent settlement of the Kala Chitta reserve in the Rawalpindi Division. The only other Divisions showing variations are Kulu and Kotkhai and Kotguru with increases of Rs. 763 and Rs. 747, respectively.

5.—Imports.

Summary.

47. The imports of the year are given in Appendix C; the chief classes compare with those of 1889-90 as follows:—

| Description of timber. | 1889-90. | 1890-91. | 1890-91. | |
|---|---|---|---|---|
| | Number. | Number. | More No. | Less No. |
| Deodar logs ... ... | 14,423 | 16,273 | 1,850 | ... |
| Pine logs ... ... ... | 4,413 | 1,429 | .. | 2,984 |
| Sleepers ... ... ... | 4,61,610 | 5,08,494 | 46,884 | ... |

## 6.—General.

Special work in the Simla Hills.

48. It is to be regretted that the exigencies of the Province necessitated the relinquishment, shortly after the close of the year, by Mr. McIntire of his special work, in connection with the forests in the Simla Hill States. The work has now been amalgamated with the Bashahr Division to which, the assistance of an Extra Assistant Conservator or Senior Ranger will, it is hoped, shortly be given; still it is impossible that it can be so efficiently performed as during the incumbency of Mr. McIntire, whose whole time was devoted to it.

The following is a statement showing the revenue and expenditure on the work entrusted to Mr. McIntire during the year in the Simla District:—

| Forests. | Revenue. | | | Expenditure "A." | | | Expenditure "B." | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | |
| Kotkhai and Kotguru Forests | (a) 315 | 5 | 6 | (e) 845 | 15 | 6 | 1225 | 8 | 11 | (a). Credited to land revenue. |
| Simla Municipal Forests ... | (b) 4,836 | 0 | 0 | (d) 978 | 7 | 3 | 917 | 0 | 0 | (b). Net value of produce supplied from Municipal Forests for use of Municipality. |
| | (c) 5,157 | 0 | 9 | ... | ... | ... | (d) 1,013 | 15 | 9 | (c). Credited to Municipality. (d). Paid by Municipality. |
| Simla Hill States ... ... | ... | ... | ... | ... | ... | ... | 6,557 | 13 | 11 | (e). Includes Rs. 144-5-3 provided by the Deputy Commissioner. |
| Jutogh ... ... ... | 64 | 3 | 9 | 546 | 0 | 0 | 127 | 14 | 0 | |
| Total ... | 10,372 | 10 | 0 | 2,370 | 13 | 3 | 10,742 | 4 | 7 | |

Bakani slide.

49. The removal of the Bakani timber slide was completed and a road constructed along its site, as provided in the Working Plan.

Tramways.

50. The only tramway is at Changa Manga. During the year the rolling-stock was considerably augmented, at a cost of Rs. 9,306. None of the new stock however came into use. With the old stock 2,10,350 cubic feet of fuel were carried from compartments, 72 and 74 to the Railway Station, an average distance of 2½ miles, the cost of actual working amounting to Rs. 346.

Drift timber operations.

51. Appendix D. shows the operations in drift and waif wood carried on during the year. 34,409 cubic feet were received in depots; 10,163 cubic feet were given over to claimants, and 15,390 cubic feet transferred to Government account while 16,248 cubic feet remained on hand undisposed of.

Comparison between the growth of shisham on Sailába and irrigated rakh land.

52. This year the comparison between the growth of Shisham on the artificially irrigated land of Changa Manga and on the *Sailába* land of Shahdera has been made with regard to the *mean annual production* in accordance with the remarks given in paragraph 12 of the Government of India review on last year's report—

| Locality. | Area cut. | Nature of felling. | Age. | Yield of each class of wood. Timber. Cubic feet, solid. | Fuel under 2" in diameter. Cubic feet, stacked. | Fuel under 2" in diameter. Equivalent in cubic feet, solid. | Fuel over 2" in diameter. Cubic feet, stacked. | Fuel over 2" in diameter. Equivalent in cubic feet, solid. | Five feet billets over 10" in diameter. Cubic feet, stacked. | Five feet billets over 10" in diameter. Equivalent in cubic feet, solid. | Total yield cubic feet, solid. | Total average per acre cubic feet, solid. | Mean annual production cubic feet, solid. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Changa Manga | 405·8 | Clearance felling reserving 15 standards per acre. | 18 | 12,962 | 92,800 | 11,130 | 6,48,540 | 3,69,668 | 6,000 | 4,020 | 3,97,786 | 980 | 54·4 } 68·3 |
| | | Thinnings ... ... | ... | .. | 24,300 | 2,916 | 1,73,059 | 98,644 | | ... | 1,01,560 | 250 | 13·9 |
| Shahdera ... | 72 | Clearance felling reserving 10 to 20 trees per acre. | 18 | 2,505 | 41,489 | 4,979 | 1,79,801 | 1,02,487 | . | ... | 1,10,031 | 1,528 | 84·9 } 101·9 |
| | | Thinnings ... ... | .. | ... | ... | ... | 36,730 | 22,076 | ... | .. | 22,076 | 307 | 17·0 |

53. The operations of the year in connection with the supply of fire-wood to the North-Western Railway were as follows :—

Fuel works for supply of North-Western Railway.

| Divisions | Estimated cubic feet cut | Cubic feet carried to Railway | Made over to the Railway, cubic feet, stacked. | | |
|---|---|---|---|---|---|
| | | | From deliveries of the year | From balance lying stacked at stations | Total |
| Multan | 13,16,504 | 10 18,760 | 9,04,736 | 2,83,574 | 12,78,310 |
| Montgomery ... | 24,79,037 | 18,19,341 | 18,15,040 | 12,39,902 | 30,54,942 |
| Lahore .. .. ... | 8,62,753 | 6,47,250 | 6,45,970 | 1,10,740 | 7,56,710 |
| Total ... | 46,58,294 | 34,85,351 | 34,55,746 | 16,34,216 | 50,89,962 |

54. *Khanpur.*—As previously reported the plan for the Khanpur Reserve has now expired; its provisions are, however, as far as practicable, being carried on, though during the year, no advance was made towards completing the felling of the areas as yet untouched, nor, owing to change of Divisional Officers, was the projected roadway taken in hand.

Operations of existing Working Plans

The following shows what has been done up to date and what remains still to be cleared :—

| | *Acres* | *Maunds* |
|---|---|---|
| Cuttings provided for ... ... | 11,769 | 3,74,874 |
| Actually felled ... ... | 7,582 | 2,57,893 |
| Still available .. ... | 4,187 | 1,16,981 |

*Murree and Kahuta.*—As noted in paragraph 11, the Murree and Kahuta Plan was only finally sanctioned towards the end of the year; its provisions were however, fairly worked up to during the year. The following statement gives the results of fellings and the amount of work uncompleted :—

| | | Previous to 1890-91 | | During 1890-91 | | To end of 1890-91 | |
|---|---|---|---|---|---|---|---|
| | | Acres | Quantity | Acres | Quantity | Acres | Quantity |
| Exploitations provided for | Selection fellings No | | 2 277 | . | 1,125 | ... | 3,402 |
| | Fuel cuttings mds | 2 642 | 1,72,500 | 1,178 | 65,700 | 3,820 | 2,38,200 |
| | Oak thinnings | 477 | | 155 | . | 632 | — |
| Actually carried out | Selection fellings No | | 1,803 | | 1,127 | . | 2,930 |
| | Fuel cuttings mds | 2,229 | 1,24,580 | 508 | 45.700 | 2 737 | 1,70,280 |
| | Oak thinnings mds . | 100 | 2,977 | 55 | 2,375 | 155 | 5,352 |
| Yet to be completed | Selection fellings No | | 474 | .. | | .. | 472 |
| | Fuel cuttings mds | 413 | 47,920 | 670 | 20,000 | 1,083 | 67,920 |
| | Oak thinnings ... | 377 | .. | 100 | | 477 | .. |

The oak thinnings have since been effected, but a slack demand for pine trees and the distance of the areas from the market of Rawalpindi, coupled with difficulty of extraction, prevent disposal of the selection fellings and fuel.

Of the prescribed works of improvement only one export path 3 miles long has yet been constructed; while, no plants being available, planting could not be done in Patriata, and the erection of huts for guards was considered unnecessary.

*Chamba.*—The prescriptions of the Chamba Plans for the year under report have been fully carried out with the following minor exceptions :—

(*a*). Only 4½ acres instead of 20 acres were planted with deodar in the Chadbent Forest, owing to insufficiency of available seedlings.

(*b*). The prescribed resowing of 20,000 square feet old nurseries could not be accomplished, as no old nurseries were in existence.

(*c*). Only 4½ miles of the 6 miles prescribed road from Rambo-Chirindi path to Kalatop-Kainthli path were constructed, the work having been interrupted by unusually early and excessive snowfall.

*Bhera rakhs.*—The Plan for the Bhera rakhs again remained in abeyance for the reasons given last year.

*Changa Manga.*—The fellings of the year have again remained behind the provisions of the Plan, it being found impossible to complete compartments Nos. 57 and 61, in area 191 acres, owing to deficiency of labour, partly due to the new irrigation works in progress, and to frequent and heavy rainfall. The areas left unfelled in 1889-90 were however completed. The total yield of the 405·8 acres cut over was 12,962 cubic feet solid of timber and 7,47,340 cubic feet stacked of fuel, against the average yield estimated by the revised plan of about 10,00,000 cubic feet for the 421·8 acres prescribed to be cut over.

The burning of the brushwood in compartments Nos. 58 and 62 had to be deferred till April, while want of labour retarded the clearing of the trenches in compartments felled, which in its turn rendered the sowing of blanks in the areas felled impossible.

The chief result of Mr. D'Arcy's revised proposals of 1889 has been the commencement of the irrigation improvements, on which, some Rs. 8,200 only were spent out of a proposed expenditure of Rs. 20,000, owing to the heavy and incessant rainfall which put a stop to brick manufacture. The whole work will, however, be completed probably during 1891-92, in time to utilize the supply of water available in April 1892.

*Shahdera.*—The prescriptions of the Shahdera-*cum*-Jugian Plan were fully carried out, and compartment No. 5 was cut over. The yield was 2,565 cubic feet solid of timber and 1,79,801 cubic feet stacked of fuel over 2 inches in diameter and 41,489 cubic feet under 2 inches, as against the estimate of 1,51,000 cubic feet over 2 inches.

The experiment instituted last year, of selling the entire crop before conversion, was abandoned, as financially unsuccessful; the trees were felled and converted departmentally, and the produce sold by auction for Rs. 16,903, as against the total average estimated annual revenue for the Working Circle of Rs. 8,499 of the Working Plan.

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## CHAPTER V.—FINANCIAL RESULTS.

General summary.

55. The financial results of the year give a surplus of Rs. 1,70,826, which, though Rs. 1,05,032 less than that of last year, is only Rs. 37,998 below the average surplus of the past 13 years.

The following paragraphs explain the cause of this smaller surplus; but it may be here noted, that the survey and working plan operations in Bashahr and the purchase of tramway stock for Changa Manga have influenced it to the extent of some Rs. 32,500.

Revenue (Form 58.)

56. The total revenue was Rs. 8,34,370 against Rs. 9,21,713 in 1889-90. The fall of Rs. 87,343 is attributable to the dullness of the timber market and to there being large stocks on hand. In consequence, a large amount of timber was kept back and the receipts from this head alone were reduced by no less than Rs. 2,24,116.

This large decrease was, however, almost balanced by the sale to the Railway of departmentally worked fuel from the Lahore, Multan and Montgomery Divisions, which rose by Rs. 1,96,969, from Rs. 98,226 to Rs. 2,95,195, The unsold timber is also in stock.

As before explained removals of firewood and charcoal by purchasers were less, and in consequence the sales were Rs. 46,412 below those of last year; the revenue from drift and waif wood was also lower by Rs. 10,074.

Expenditure (Form 58).

57. The total expenditure of the year has increased by Rs. 17,689 and amounted to Rs. 6,63,544, against Rs. 6,45,855 last year. Under "A, Conservancy and works," the increase was Rs. 13,291, and under "B, Establishments" Rs. 4,398. That under "A, Conservancy and works" is explained by the large increase of Rs 15,003 under "A VIII C," consequent on the survey and working plan operations in progress in Bashahr, which brought the expenses of the year to Rs. 23,959, a sum equal to the total expenditure under this head during the last 13 years; by the purchase of Rs. 9,306 worth of tramway stock under "A VI C" for Changa Manga, and by the extra cost of fuel works of Rs. 7,814 for supply to the Railway. There was, however, a reduction of Rs. 19,000 in the charges on account of timber removed by Government agency, chiefly in the Kulu Division.

Financial results (Form 62).

58. The surplus or deficit under the three great heads of account for the last three years were :—

| | 1888-89. | | 1889-90. | | 1890-91. | |
|---|---|---|---|---|---|---|
| | Surplus. | Deficit. | Surplus. | Deficit. | Surplus. | Deficit. |
| I.—Departmental timber operations ... | 2,88,833 | ... | 1,79,680 | ... | 1,49,551 | ... |
| II.—Other Revenue ... ... .. | 3,15,881 | ... | 2,52,026 | ... | 1,95,284 | ... |
| III.—Protection, &c. ... ... ... | ... | 1,51,868 | ... | 1,55,848 | . | 1,74,009 |
| Total ... | 4,52,846 | ... | 2,75,858 | ... | 1,70,826 | ... |

Thus only 21 per cent of the year's gross revenue has been spent on protection and improvement of the forests.

Outstandings of revenue (Form No. 60).

59. The outstandings on account of revenue have increased from Rs. 8,834 at the commencement of the year to Rs. 27,170 at the close. The chief item of Rs. 15,927 is in the Montgomery Division, and is due on account of grazing during the year. There have been no irrecoverable items, but Rs. 605 have been struck off mainly, owing to certain sales in the Chenab Division being cancelled.

Outstandings against contractors and disbursers. (Form No. 61).

60. The balance due to the Department from contractors and disbursers was reduced by Rs. 2,114 and stood at Rs. 8,754 at the close of the year. Of this sum Rs. 852 only were due from contractors and Rs. 7,902 from disbursers. Of the former no single item reached Rs. 500, while the entire amount belongs to the year under report.

Net result of the year's transactions.

61. The following shows the value of the year's transactions.—

| | Rs. |
|---|---|
| Cash surplus (Form No. 58) ... ... ... | 1,70,826 |
| *Add* :— | |
| Increase on revenue outstanding (Form No. 60) ... ... | 18,336 |
| | 1,89,162 |
| *Deduct* :— | |
| Decreased value of stock at depôts (Form No. 57 A) ... | 53,093 |
| Total in favour of the year ... | 1,36,069 |

This result compares unfavourably with that of past years and is considerably influenced by the receipts and sales of last year's outturn *within the year*, mentioned in paragraph 46 of the report for 1889-90.

In addition, stock at forest depôts has only been included in the value of the year's transactions since 1887-88. Ordinarily timber at such depôts is eventually floated down to sale depôts, but the transfer is scarcely ever accomplished during the year, and thus, for a time, the value of such stock, if taken into account as shown in Form No. 57 A, and as has been previously done, might actually go against the net result of the year, while so much timber really remained on hand. And this is what has actually taken place during the year in Chamba, where Rs. 72,758 worth of timber in transit has not been brought into the account. To avoid this it would be necessary to create another and separate head in Form 57 A, called "River," so long as the Form includes forest depôts. Had this been done during the year under report, the net result in favour of the year would have amounted to Rs. 2,03,827.

Results of the year by Divisions after adjustments of accounts for timber works between Hills and Plains Divisions.

62. The following statement shows the results of the year by Divisions, after the adjustment of accounts for timber works :—

| Divisions. | Revenue. | Expenditure. | Surplus. | Deficit. |
|---|---|---|---|---|
| Hazara ... ... ... ... | 43,956 | 44,307 | ... | 351 |
| Rawalpindi ... ... ... ... | 32,863 | 19,708 | 13,155 | ... |
| Chamba ... ... ... ... | 64,810 | 1,33,744 | ... | 68,934 |
| Kangra ... ... ... ... | 31,693 | 26,778 | 4,915 | ... |
| Kulu ... ... ... ... | 45,964 | 40,138 | 5,826 | ... |
| Bashahr ... ... ... ... | 81,805 | 1,07,423 | ... | 25,618 |
| Jhelum ... ... ... ... | 22,430 | 21,367 | 1,063 | ... |
| Chenab ... ... ... ... | 97,460 | 24,961 | 72,499 | .. |
| Lahore ... ... ... ... | 1,05,395 | 62,637 | 42,758 | ... |
| Multan ... ... ... ... | 89,887 | 38,732 | 51,155 | ... |
| Montgomery... ... ... ... | 2,11,012 | 58,443 | 1,52,569 | ... |
| Ambala ... ... ... ... | 7,023 | 18,034 | ... | 11,011 |
| Direction ... ... ... ... | 72 | 67,272 | ... | 67,200 |
| TOTAL ... | 8,34,370 | 6,63,544 | 1,70,826 | ... |

## CHAPTER VI.—GENERAL REMARKS.

Locusts.

63. The forests of the Hazara, Rawalpindi, Kangra, Kulu, Jhelum, Chenab Lahore, and Ambala Divisions were visited in the spring and summer by large swarms of locusts, which did considerable damage, and in some instances laid their eggs in the forest.

Weather.

64. The rains were excessive; the snowfall unusually heavy, and the winter the severest for many years, which, in the Hill Divisions, not only retarded timber works, but caused great damage to buildings, roads, plantations and even the existing forests. The winter and spring rains, too, were abundant.

# STATEMENTS.

# Form No. 49.

## AREA OF RESERVED FORESTS, 1890-91.

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1890. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1891. | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Hazara. | Dungagali ... | Hazara ... | Dungagali Reserves ... | 40,714 | 63·62 | ... | ... | 40,714 | 63·62 | |
| | Kaghan ... | Do. ... | Kaghan Reserves ... | 57,487 | 89·82 | ... | ... | 57,487 | 89·82 | |
| | Siran ... | Do. ... | Siran Reserves | 20,986 | 32·79 | ... | ... | 20,986 | 32·79 | |
| | Khanpur ... | Do. ... | Khanpur Reserves ... | 31,786 | 49·67 | ... | ... | 31,786 | 49·67 | |
| | | | Total ... | 1,50,973 | 235·90 | ... | ... | 1,50,973 | 235·90 | |
| Rawalpindi. | Rawalpindi | Rawalpindi... | Rawalpindi Reserves ... | 35,577 | 55·59 | ... | ... | 35,577 | 55·59 | |
| | Kala Chitta | Do. ... | Attock Reserves ... | 5,479 | 8·56 | .. | ... | 5,479 | 8·56 | |
| | Fatehjang .. | Do. ... | Fatehjang Reserves ... | 15,346 | 23·97 | ... | ... | 15,346 | 23·97 | |
| | Kahuta ... | Do. ... | Kahuta Reserves ... | 40,999 | 64·06 | ... | .. | 40,999 | 64·06 | |
| | Murree ... | Do. ... | Murree Reserves ... | 30,462 | 47·60 | ... | 132 (a) | 30,330 | 47·39 | |
| | Kala Chitta and Fatehjang ... | Do. ... | Kala Chitta Reserves ... | 93,194 | 145·62 | ... | ... | 93,194 | 145·62 | |
| | | | Total ... | 2,21,057 | 345·40 | ... | 132 | 2,20,925 | 345·19 | |
| Chamba. | Pangi ... | Chamba ... | Pangi Forests. | 25,750 | 40·23 | ... | ... | 25,750 | 40·23 | |
| | Dalhousie... | Do. ... | Kalatop ... | 2,602 | 4·06 | ... | ... | 2,602 | 4·06 | |
| | Do ... | Do. ... | Kainthli ... | 964 | 1·51 | ... | ... | 964 | 1·51 | |
| | Do. ... | Do. ... | Bakloh ... | 643 | 1·00 | ... | ... | 643 | 1·00 | |
| | Do. ... | Do. ... | Ranikhet ... | 517 | 0·81 | ... | ... | 517 | 0·81 | |
| | Bhandal ... | Do. ... | Bhandal Forests ... | 9,797 | 15·30 | ... | ... | 9,797 | 15·30 | |
| | Tisa ... | Do. ... | Tisa Forests... | 23,834 | 37·24 | ... | ... | 23,834 | 37·24 | |
| | Barmaur ... | Do. ... | Barmaur do. | 19,373 | 30·27 | ... | ... | 19,373 | 30·27 | |
| | Chamba ... | Do. ... | Chamba ,, | 17,975 | 28·09 | ... | ... | 17,975 | 28·09 | |
| | | | Total ... | 1,01,455 | 158·51 | ... | ... | 1,01,455 | 158·51 | |
| Kangra. | Dera ... | Hoshiarpur | Dera Reserves | 14,913 | 23·30 | ... | ... | 14,913 | 23·30 | |
| | Do. ... | Kangra ... | Do. ... | 11,066 | 17·29 | ... | ... | 11,066 | 17·29 | |
| | Beas River | Hoshiarpur | Belas ... | 525 | 0·82 | 26 (b) | 12 (c) | 539 | 0·84 | |
| | Nurpur ... | Kangra ... | Nurpur Reserves ... | 9,402 | 14·69 | ... | ... | 9,402 | 14·69 | |
| | | | Total ... | 35,906 | 56·10 | 26 | 12 | 35,920 | 56·12 | |
| Bashahr. | Neogli ... | Simla ... | Neogli Reserves | 37,920 | 59·25 | ... | ... | 37,920 | 59·25 | |
| | Taranda ... | Do. ... | Taranda ,, ... | 11,130 | 17·39 | 30 (b) | ... | 11,160 | 17·44 | |
| | Kilba ... | Do. ... | Kilba ,, ... | 6,833 | 10·68 | ... | ... | 6,833 | 10·68 | |
| | Kailas ... | Do. ... | Kailas ,, ... | 15,730 | 24·58 | ... | ... | 15,730 | 24·58 | |
| | Chini ... | Do. ... | Chini ,, ... | 14,050 | 21·95 | .. | ... | 14,050 | 21·95 | |
| | Pandrabis... | Do. ... | Pandrabis ,, ... | 11,358 | 17·75 | ... | ... | 11,358 | 17·75 | |
| | Pabar ... | Do. ... | Pabar, Giri and Rupin Forests ... | 6,355 | 9·93 | ... | ... | 6,355 | 9·93 | |
| | | | Total ... | 1,03,376 | 161·53 | 30 | ... | 1,03,406 | 161·58 | |

# Form No. 49.

AREA OF RESERVED FORESTS, 1890-91.—(continued).

| Division. | Range. | Civil District or Territory | Name of Forest | Area on 1st April 1890. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1891 | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Jhelum | Jhelum .. | Jhelum ... | Jhelum Reserves ... | 83,959 | 131 18 | ... | ... | 83,959 | 131 18 | |
| | River ... | Do .. | Reserved Belas | 1,719 | 2·68 | ... | {31 (c) 13 (d)} | 1,675 | 2·61 | |
| | Talagang ... | Do. .. | Talagang Reserves ... | 24,671 | 38 55 | .. | ... | 24,671 | 38 55 | |
| | Chakwal ... | Do. ... | Chakwal Reserves ... | 14,689 | 22·95 | ... | ... | 14,689 | 22 95 | |
| | Pind Dadan Khan ... | Do. ... | Pind Dadan Khan Reserves ... | 68,489 | 107·01 | ... | ... | 68,489 | 107 01 | |
| | | | Total ... | 1,93,527 | 302·37 | ... | 44 | 1,93,483 | 302 30 | |
| Chenab | Chenab River | Gujrat ... | Gujrat Reserves | 1,700 | 2 65 | 53(c) | ... | 1,753 | 2 74 | |
| | Do. ... | Do. ... | Kathala Plantation ... | 888 | 1·39 | ... | 25(c) | 863 | 1·34 | |
| | Pabbi ... | Do ... | Pabbi ... | 25,185 | 39·35 | ... | ... | 25,185 | 39·35 | |
| | Phalian ... | Do. ... | Phalian Reserves ... | 20,006 | 31·26 | ... | ... | 20,006 | 31 26 | |
| | Gujranwala | Gujranwala | Gujranwala Reserves ... | 876 | 1·37 | ... | ... | 876 | 1 37 | |
| | Chenab River | Do. ... | Thatta Faqirulla ... | 1,012 | 1·58 | ... | ... | 1,012 | 1·58 | |
| | Hafizabad... | Do. ... | Hafizabad Reserves ... | 36,997 | 57 81 | ... | 12(e) | 36,985 | 57 79 | Punjab Government Notification, No. 70, dated 19th February 1891. |
| | | | Total ... | 86,664 | 135·41 | 53 | 37 | 86,680 | 135·43 | |
| Lahore | Chunian ... | Lahore ... | Changa Manga Plantation Circle ... | 10,132 | 15 83 | ... | ... | 10,132 | 15·83 | |
| | | Do. ... | Changa Manga Rakh Circle | 10,041 | 15 69 | .. | ... | 10,041 | 15 69 | |
| | Lahore . | Do ... | Shahdera Plantation ... | 1,254 | 1·96 | 114(c) | ... | 1,368 | 2·14 | |
| | Ditto. ... | Do. .. | Carob Plantation ... | 23 | ·04 | ... | ... | 23 | 04 | |
| | Sharakpur... | Do. ... | Sadhanwali Plantation... | 349 | ·54 | ... | ... | 349 | ·54 | |
| | | Do. ... | Jhoke Plantation ... | 2,976 | 4·65 | ... | ... | 2,976 | 4·65 | |
| | Detached .. | Amritsar ... | Amritsar Reserves ... | 2,768 | 4·33 | ... | 2(c) | 2,766 | 4·32 | |
| | | | Total ... | 27,543 | 43 04 | 114 | 2 | 27,655 | 43·21 | |
| Multan | Serai Sidhu | Multan ... | Serai Sidhu Reserves ... | 42,785 | 66·85 | ... | 5(e) | 42,780 | 66·84 | Punjab Government Notifications No. 475, dated 6th Novr. 1890 and No. 79, dated 24th February. 1891. |
| | Lodhran .. | Do. ... | Lodhran Reserves ... | 7,735 | 12 09 | ... | 7(e) | 7,728 | 12·08 | Punjab Government Notification No. 476. dated 6th Novr. 1890. |
| | Mailsi ... | Do. ... | Mailsi Reserves | 28,918 | 45·18 | ... | ... | 28,918 | 45·18 | |
| | | | Total ... | 79,438 | 124 12 | ... | 12 | 79,426 | 124·10 | |
| Montgomery | Gugera ... | Montgomery | Gugera Reserves | 22,510 | 35 17 | ... | ... | 22,510 | 35 17 | |
| | Montgomery | Do. ... | Montgomery Reserves ... | 18,607 | 29·07 | ... | ... | 18,607 | 29 07 | |
| | Chichawatni | Do. ... | Chichawatni Reserves ... | 14,618 | 22·84 | ... | ... | 14,618 | 22·84 | |
| | Pakpattan... | Do. ... | New Sohag Reserves ... | 8,378 | 13·09 | ... | ... | 8,378 | 13 09 | |
| | | | Total ... | 64,113 | 100·17 | ... | ... | 64,113 | 100 17 | |

# Form No. 49.

## AREA OF RESERVED FORESTS, 1890-91.—(concluded).

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1890. Acres. | Area on 1st April 1890. Equivalent in square miles. | Added during the year. Acres. | Excluded or transferred to other heads. Acres. | Area on 31st March 1891. Acres. | Area on 31st March 1891. Equivalent in square miles. | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| Ambala. | Phillour ... | Jullundur .. | Jullundur Plantation .. | 51 | ·07 | ... | ... | 51 | ·07 | |
| | Do. ... | Do ... | Phillour Plantation ... | 220 | ·34 | ... | ... | 220 | ·34 | |
| | Ludhiana ... | Ludhiana .. | Ludhiana Plantation ... | 197 | ·31 | ... | ... | 197 | ·31 | |
| | Do. | Ambala ... | Jagadhri Plantation ... | 201 | ·33 | ... | ... | 201 | ·33 | |
| | Kalesar ... | Do. ... | Kalesar Reserves ... | 11,570 | 18·08 | ... | ... | 11,570 | 18 08 | |
| | | | Total ... | 12,239 | 19·13 | ... | ... | 12,239 | 19·13 | |
| Simla. | | Simla ... | Kotguru ... | 1,454 | 2·29 | ... | ... | 1,454 | (f) 2·27 | |
| | | Do. ... | Kotkhai ... | 6,701 | 10 47 | ... | 38 (b) | 6,663 | 10·41 | |
| | | | Total ... | 8,155 | 12·76 | ... | 38 | 8,117 | 12 68 | |
| | | | Grand Total ... | 10,84,446 | 1,694 | 223 | 277 | 10,84,392 | 1,694 | |
| | | Total for 1889-90 ... | | 9,82,749 | 1.536 | 1,02,201 | 504 | 10.84,446 | 1,694 | |

a. Correction of previous returns, owing to errors in Settlement records.
b. Ditto ditto ditto to re-measurements, &c
c. By river action
d Under Had-i-Sikandri rule.
e. Transferred to Canal Department.
f. Correction in square miles.

### Abstract of changes during the year.

| | | | | Acres |
|---|---|---|---|---|
| Area at commencement of year ... . ... ... ... | | | | 10,84,446 |
| *Added—* | | | | |
| By correction of areas ... .. ... | 56 | | | |
| ,, river action ... ... ... | 167 | | | |
| | | 223 | | |
| *Excluded—* | | | | |
| By correction of areas ... ... ... | 170 | | | |
| ,, river action ... ... ... .. | 70 | | | |
| ,, transfer to Canal Department ... ... | 24 | | | |
| Under Had-i-Sikandri System ... ... | 13 | 277 | | |
| Net deduction ... | | | | 54 |
| Area at close of year ... ... ... ... ... ... | | | | 10,84,392 |

## AREA OF PROTECTED FORESTS, 1890-91.

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1890. Acres. | Area on 1st April 1890. Equivalent in square miles. | Added during the year. Acres. | Excluded or transferred to other heads. Acres. | Area on 31st March 1891. Acres. | Area on 31st March 1891. Equivalent in square miles. | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rawalpindi. | Murree ... | Rawalpindi | Murree Protected Forests, | 23,186 | 36·23 | ... | 7(a) | 23,179 | 36 22 | |
| | Kahuta ... | Do ... | Kahuta ,, ... | 20,123 | 31·44 | ... | .. | 20,123 | (d)31·44 | |
| | | | Total ... | 43,309 | 67·67 | ... | 7 | 43,302 | 67·66 | |
| Chenab. | Hafizabad ... | Gujranwala | Hafizabad Protected Forests | 1,85,900 | 290·47 | ... | 2,573 (b) 9 (c) | 1,83,318 ... | 286·43 ... | |
| | | | Total .. | 1,85,900 | 290·47 | ... | 2,582 | 1,83,318 | 286·43 | |
| | | | Grand Total | 2,29,209 | 358 | ... | 2,589 | 2,26,620 | 354 | |
| | | Grand Total for 1889-90... | | 3,22,600 | 504 | ... | 93,391 | 2,29,209 | 358 | |

a. Correction of previous returns; error discovered in Settlement records.
b. Alienated as grants.
c. Transferred to Canal Department, Punjab Government Notifications Nos 443 and 444, dated 28th October 1890.
d. Includes 50 acres on lease to Sahib Singh, see Commissioner and Superintendent, Rawalpindi's No. 2860 of 24th November 1887.

### Abstract of Changes during the year.

| | | | Acres. |
|---|---|---|---|
| Area at commencement of year ... ... ... ... | | | 2,29,209 |
| *Excluded—* | | | |
| By correction of areas ... ... ... | 7 | | |
| Alienated as grants ... ... ... | 2,573 | | |
| By transfer to Canal Department ... ... | 9 | | 2,589 |
| Area at close of areas ... ... ... ... | | | 2,26,620 |

# Form No. 49.

## AREA OF UNCLASSED STATE FORESTS, 1890-91.

| Division. | Range. | Civil District or Territory. | Name of Forest | Area on 1st April 1890. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1891 | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles | Acres | Acres. | Acres. | Equivalent in square miles. | |
| Rawalpindi. | Kahuta ... | Rawalpindi | Kahuta Range Rakhs undemarcated | 82,800 | 129 38 | ... | .. | 82,800 | 129·38 | |
| | Murree ... | Do. ... | Murree Range Rakhs undemarcated | 73,400 | 114 69 | ... | .. | 73,400 | 114·69 | |
| | Attock ... | Peshawar... | Jabba Jhil ... | 580 | ·91 | ... | ... | 580 | ·91 | |
| | | | Total ... | 1,56,780 | 244 98 | ... | ... | 1,56 780 | 244·98 | |
| Chamba. | River ... | Gurdaspur | Gurdaspur Rakhs ... | 8,882 | 13·88 | ... | ... | 8,882 | 13·88 | |
| | | | Total ... | 8,882 | 13.88 | ... | ... | 8,882 | 13 88 | |
| Kangra. | Dera ... | Kangra ... | Dera Range Rakhs ... | 2,03,569 | 318·07 | ... | ... | 2,03,569 | 318 07 | |
| | Do. ... | Hoshiarpur | Hoshiarpur Rakhs ... | 82,890 | 129·51 | ... | ... | 82,890 | 129·51 | |
| | Nurpur ... | Kangra ... | Nurpur Range Rakhs ... | 91,463 | 142 91 | ... | ... | 91,463 | 142·91 | |
| | | | Total ... | 3,77,922 | 590·49 | ... | ... | 3,77,922 | 590·49 | |
| Kulu. | Upper Kulu | Kangra ... | Upper Kulu Range ... | 71,322 | 111 44 | ... | ... | 71,322 | 111·44 | |
| | Lower Kulu | Do. ... | Lower Kulu Range ... | 25,493 | 39·83 | ... | ... | 25,493 | 39 83 | |
| | Inner Seoraj | Do. ... | Inner Seoraj Range . | 69,903 | 109 22 | .. | ... | 69,903 | 109·22 | |
| | Outer Seoraj | Do. ... | Outer Seoraj Range ... | 58,610 | 91·58 | ... | 60(a) | 58,550 | 91·48 | |
| | Waziri Rupi | Do ... | Waziri Rupi Range ... | 1,22,787 | 191·85 | ... | 10(a) | 1,22,777 | 191 84 | |
| | | Do ... | Lahoul ... | 2,560 | 4·00 | 120(a) | ... | 2,680 | 4·19 | |
| | | | Proposed protected undemarcated State Forests | 3,90,430 | 610.05 | 2(b) | {69(c) 2(b)} | 3,90,361 | 609·94 | |
| | | | Total ... | 7,41,105 | 1,157·97 | 122 | 141 | 7,41,086 | 1,157·94 | |
| Bashahr. | Kilba ... | Simla ... | Kilba .. | 7,881 | 12·31 | ... | ... | 7,881 | 12·31 | |
| | Kailas ... | Do. ... | Kailas Range | 14,989 | 23·42 | ... | ... | 14,989 | 23·42 | |
| | Chini ... | Do. ... | Chini Range | 2,555 | 3·99 | ... | ... | 2,555 | 3·99 | |
| | Pandrabis .. | Do. ... | Pandrabis ... | 20,642 | 32·26 | ... | ... | 20,642 | 32·26 | |
| | Neogli ... | Do. ... | Neogli ... | 5,112 | 7·98 | ... | ... | 5,112 | 7 98 | |
| | Taranda ... | Do. ... | Taranda ... | 12,547 | 19 61 | ... | ... | 12,547 | 19·61 | |
| | Pabar ... | Do. ... | Pabar, Rupin and Giri Forests ... | 90,450 | 141·33 | ... | ... | 90,450 | 141·33 | |
| | | | Total ... | 1,54,176 | 240 90 | ... | ... | 1,54,176 | 240·90 | |
| Jhelum. | Khushab ... | Shahpur ... | Khushab Rakhs | 1,34,824 | 210·66 | ... | 1,882(a) | 1,32,942 | 207·72 | |
| | | | Total ... | 1,34,824 | 210·66 | ... | 1,882 | 1,32,942 | 207 72 | |

# Form No 49.

## AREA OF UNCLASSED STATE FORESTS, 1890-91.—(concluded).

| Division | Range | Civil District or Territory. | Name of Forest | Area on 1st April 1890. Acres. | Area on 1st April 1890. Equivalent in square miles | Added during the year. Acres. | Excluded or transferred to other heads. Acres. | Area on 31st March 1891. Acres. | Area on 31st March 1891. Equivalent in square miles. | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| Chenab. | Hafizabad ... | Gujranwala | Hafizabad Rakhs ... | 2,832 | 4·43 | ... | ... | 2,832 | 4·43 | |
| | Chenab River | Do. ... | Belas ... | 1,202 | 1·88 | ... | 175 (e) | 1,027 | 1·60 | |
| | Do. ... | Gujrat ... | Do. ... | 7,675 | 11·99 | 438 (d) | 466 (d) | 7,647 | 11·95 | |
| | Do. ... | Do. ... | Kuthala Plantation ... | 6 | 0·01 | ... | ... | 6 | 0·01 | |
| | Bhera ... | Shahpur ... | Bhera Rakhs | 1,42,756 | 223 06 | 6 (a) | 300(f) 51(a) | 1,42,411 | 222·52 | |
| | Chenab River | Sialkot ... | Belas ... | 90 | 0·14 | 162 (a) | .. | 252 | 0·39 | |
| | Pabbi ... | Gujrat ... | Jhelum Belas | 313 | 0·49 | 101 (d) | 15 (d) | 399 | 0·62 | |
| | | | Total ... | 1,54,874 | 242·00 | 707 | 1,007 | 1,54,574 | 241·52 | |
| Lahore. | Chunian ... | Lahore ... | Chunian unclassed ... | 1,03,687 | 162·01 | ... | 5 (a) | 1,03,682 | 162·00 | |
| | Lahore ... | Do. ... | Lahore unclassed ... | 12,137 | 18·96 | ... | 498(a) 145(e) | 11,494 | 17·96 | |
| | Do. ... | Do. ... | Kot Lakhpat | 600 | ·94 | ... | ... | 600 | ·94 | |
| | Sharakpur | Do. ... | Sharakpur unclassed .. | 73,029 | 114·11 | ... | ... | 73,029 | 114·11 | |
| | Do. ... | Do. ... | Do. ... | 826 | 1·29 | ... | ... | 826 | 1·29 | |
| | | | Total ... | 1,90,279 | 297·31 | ... | 648 | 1,89,631 | 296 30 | |
| Multan. | Lodhran ... | Multan ... | Lodhran Rakhs | 21,200 | 33·12 | ... | ... | 21,200 | 33·12 | |
| | Mailsi ... | Do. ... | Mailsi ... | 17,491 | 27·33 | ... | ... | 17,491 | 27 33 | |
| | | | Makhdum Rashid ... | 310 | ·48 | ... | ... | 310 | ·48 | |
| | Sanawan ... | Muzaffargarh | Sanawan ... | 8,981 | 14·03 | ... | ... | 8,981 | 14·03 | |
| | Muzaffargarh | Do. ... | Muzaffargarh. | 10,431 | 16·30 | ... | ... | 10,431 | 16·30 | |
| | Alipur ... | Do. ... | Alipur ... | 27,377 | 42·78 | ... | 19(e) | 27,358 | 42·75 | |
| | Rajanpur... | D. G. Khan | Rajanpur ... | 16,000 | 25·00 | 87(b) | 87(b) | 16,000 | 25·00 | |
| | D. G. Khan | Do. ... | D. G. Khan... | 2,210 | 3·45 | 323(d) | ... | 2,533 | 3·96 | |
| | | | Total ... | 1,04,000 | 162·49 | 410 | 106 | 1,04,304 | 162·97 | |
| Montgomery. | Gugera ... | Montgomery | Gugera Rakhs | 2,17,861 | 340·41 | ... | 53(c) | 2,17,808 | 340·32 | |
| | Montgomery | Do. ... | Montgomery Rakhs ... | 87,002 | 135·94 | ... | ... | 87,002 | 135·94 | |
| | Chichawatni | Do. ... | Chichawatni Rakhs ... | 1,80,532 | 282 08 | ... | 193(c) | 1,80,339 | 281·78 | |
| | | | Total .. | 4,85,395 | 758 43 | ... | 246 | 4,85,149 | 758 04 | |
| Ambala. | Sabathu ... | Simla ... | Sabathu ... | 370 | 0·57 | ... | ... | 370 | 0·57 | — |
| | Dagshai .. | Do. ... | Dagshai ... | 400 | 0·63 | ... | ... | 400 | 0·63 | |
| | | | Total ... | 770 | 1 20 | ... | ... | 770 | 1·20 | |
| Simla Hill tracts | Jutogh ... | Simla ... | Jutogh Plantation ... | ... | ... | 115 (g) | ... | 115 | 0·18 | Punjab Govt. letter No. 60, dated 11th Feby. 1890. |
| | | | Total ... | ... | ... | 115 | ... | 115 | 0·18 | |
| | | | Grand Total ... | 25,09,007 | 3,920 | 1,354 | 4,030 | 25,06,331 | 3,916 | |
| | | | Total for 1889 90 ... | 25,05,598 | 3,915 | 4,766 | 1,357 | 25,09,007 | 3,920 | |

(a). Correction of previous returns.
(b). By exchange.
(c). Leased for cultivation
(d). By river action.
(e). By transfer to Canal Department.
(f). Alienated as grants.
(g). Placed under the control of the Forest Department.

### Abstract of changes during the year.

| | | Acres. |
|---|---|---|
| Area at commencement of year ... ... | | 25,09,007 |
| *Added—* | | |
| By correction of areas ... ... | 288 | |
| „ exchange ... ... ... ... | 89 | |
| „ river action ... ... ... | 862 | |
| Placed under the control of the Forest Department... ... ... | 115 | |
| | | 1,354 |

| | | | |
|---|---|---|---|
| *Excluded—* | | | |
| By correction of areas ... ... | 2,506 | | |
| „ exchange ... ... ... | 89 | | |
| „ river action... ... ... | 481 | | |
| For grants and leases ... ... | 760 | | |
| By transfer to Canal Department ... ... ... ... | 194 | | |
| | | 4,030 | |
| Net deduction .. ... ... ... | | | 2,676 |
| Area at close of year ... ... ... | | | 25,06,331 |

# Form No. 50.

## REGISTER OF BREACHES OF FOREST RULES DURING 1890-91.

| Forest Division. | | Cases pending from 1889-90. | New cases of the year. | | | | | Total cases. | Disposed of during the Year. | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission, or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals | | Total. | | |
| | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| HAZARA DIVISION ... | A. | 1 | 31 | 57 | 8 | 5 | 101 | 102 | 83 | 131 and 67 villages. | 14 | 104 and 9 villages. | 97 | 235 and 76 villages. | 5 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | 3 | 33 | 11 | ... | 47 | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 1 | 34 | 90 | 19 | 5 | 148 | 102 | 83 | 131 and 67 villages. | 14 | 104 and 9 villages. | 97 | 235 and 76 villages. | 5 |
| RAWALPINDI DIVISION | A. | 2 | 35 | 72 | 14 | 15 | 136 | 138 | 115 | 2,477 | 13 | 103 | 128 | 2,580 | 10 |
| | B. | ... | 1 | 178 | 438 | 5 | 622 | 622 | 622 | 1,230 | ... | ... | 622 | 1,230 | ... |
| | C. | ... | ... | 2 | 1 | 2 | 5 | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 2 | 36 | 252 | 453 | 22 | 763 | 760 | 737 | 3,707 | 13 | 103 | 750 | 3,810 | 10 |
| CHAMBA DIVISION ... | A. | 6 | 7 | 30 | 32 | 4 | 73 | 79 | 59 | 120 | 9 | 48 | 68 | 168 | 11 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 6 | 7 | 30 | 32 | 4 | 73 | 79 | 59 | 120 | 9 | 48 | 68 | 168 | 11 |
| KANGRA DIVISION ... | A. | 1 | 12 | 46 | 23 | 1 | 82 | 83 | 71 | 135 | 10 | 137 | 81 | 272 | 2 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 1 | 12 | 46 | 23 | 1 | 82 | 83 | 71 | 135 | 10 | 137 | 81 | 272 | 2 |
| KULU DIVISION ... | A. | 19 | 16 | 67 | 17 | 27 | 127 | 146 | 112 | 1,040 | 21 | 201 | 133 | 1,241 | 13 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 19 | 16 | 67 | 17 | 27 | 127 | 146 | 112 | 1,040 | 21 | 201 | 133 | 1,241 | 13 |
| BASHAHR DIVISION ... | A. | 191 | 59 | 49 | 1 | 19 | 128 | 319 | 69 | 116 | 5 | 11 | 74 | 127 | 245 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 191 | 59 | 49 | 1 | 19 | 128 | 319 | 69 | 116 | 5 | 11 | 74 | 127 | 245 |
| JHELUM DIVISION ... | A. | 2 | ... | 35 | 32 | 10 | 77 | 79 | 53 | 88 | 22 | 41 | 75 | 129 | 4 |
| | B. | ... | ... | 104 | 130 | 3 | 237 | 237 | 236 | 392 | 1 | 1 | 237 | 392 | ... |
| | C. | ... | 1 | 18 | 1 | ... | 20 | ... | ... | ... | ... | ... | ... | ... | ... |
| TOTAL ... | | 2 | 1 | 157 | 163 | 13 | 334 | 316 | 289 | 480 | 23 | 42 | 312 | 522 | 4 |

# Form No. 50.

## REGISTER OF BREACHES OF FOREST RULES DURING 1890-91.

| Forest Division. | | Cases pending from 1889-90. | New Cases of the Year. Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce | Grazing without permission, or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | Total cases. | Disposed of during the Year. Convictions. Cases. | Convictions. Persons. | Acquittals. Cases. | Acquittals. Persons. | Total. Cases. | Total. Persons. | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chenab Division ... | A. | 43 | ... | 53 | 96 | 4 | 153 | 196 | 106 | 300 | 49 | 232 | 155 | 532 | 41 |
| | B. | ... | ... | 8 | 17 | ... | 25 | 25 | 25 | 45 | ... | ... | 25 | 45 | ... |
| | C. | ... | 2 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 43 | 2 | 61 | 113 | 4 | 180 | 221 | 131 | 345 | 49 | 232 | 180 | 577 | 41 |
| Lahore Division ... | A. | 1 | ... | 15 | 2 | 15 | 32 | 33 | 29 | 65 | 4 | 26 | 33 | 91 | ... |
| | B. | ... | ... | 11 | 4 | ... | 15 | 15 | 15 | 29 | ... | ... | 15 | 29 | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 1 | ... | 26 | 6 | 15 | 47 | 48 | 44 | 94 | 4 | 26 | 48 | 120 | ... |
| Multan Division ... | A. | ... | ... | 23 | 67 | 2 | 92 | 92 | 84 | 133 | 8 | 18 | 92 | 151 | ... |
| | B. | ... | ... | ... | 10 | ... | 10 | 10 | 10 | 17 | ... | ... | 10 | 17 | ... |
| | C. | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | ... | ... | 23 | 78 | 2 | 103 | 102 | 94 | 150 | 8 | 18 | 102 | 168 | ... |
| Montgomery Division | A. | 66 | 1 | 79 | 53 | 1 | 134 | 200 | 86 | 138 | 37 | 85 | 123 | 223 | 77 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 66 | 1 | 79 | 53 | 1 | 134 | 200 | 86 | 138 | 37 | 85 | 123 | 223 | 77 |
| Ambala Division ... | A. | 1 | ... | 30 | 8 | 6 | 44 | 45 | 38 | 45 | 2 | 3 | 40 | 48 | 5 |
| | B. | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | 2 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 1 | 2 | 30 | 8 | 6 | 46 | 45 | 38 | 45 | 2 | 3 | 40 | 48 | 5 |
| Direction Division, Simla Hill Tracts | A. | 1 | 1 | 28 | 3 | ... | 32 | 33 | 20 | 50 | 8 | 8 | 28 | 58 | 5 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 1 | 1 | 28 | 3 | ... | 32 | 33 | 20 | 50 | 8 | 8 | 28 | 58 | 5 |
| Grand Total ... | A. | *334 | 162 | 584 | 356 | 109 | 1,211 | 1,545 | 925 | 4,838 and 67 villages. | 202 | 1,017 and 9 villages. | 1,127 | 5,855 and 76 villages. | 418 |
| | B. | ... | 1 | 301 | 599 | 8 | 909 | 909 | 908 | 1,713 | 1 | 1 | 909 | 1,714 | .. |
| | C. | ... | 8 | 53 | 14 | 2 | 77 | ... | ... | ... | ... | ... | ... | ... | ... |

* This includes one case pending from 1889-90, in Simla Forests, which is brought on to the Form for the first time.

*N. B.*—A means cases taken into Court.
B means cases disposed of under Section 67 of the Indian Forest Act, 1878.
C means undetected cases.

# Form No. 51.

## AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1891,—TO ACCOMPANY REPORT FOR 1890-91.

| Division. | Forest Tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1890. | During dry season of 1891. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Failures. | Actually protected. | | |
| Hazara ... | Kaghan 2 Reserves ... | 1885 | 40 | 2,638 | ... | 2,638 | 33 | |
| | Siran 3 " ... | 1885 | 1,905 | ... | ... | ... | ... | |
| | Khanpur 11 " ... | 1885 | 3,362 | ... | ... | ... | ... | |
| | Total ... | ... | 5,307 | 2,638 | ... | 2,638 | 33 | |
| Rawalpindi ... | Murree 18 Reserves ... | 188588 | 20,717 | 20,717 | 8 | 20,709 | 18 | |
| | " 21 Protected ... | 188590 | 15,374 | 15,374 | ... | 15,374 | 13 | |
| | Kahuta 17 Reserves ... | 188590 | 15,865 | 14,361 | 656 | 13,705 | 8 | |
| | " 14 Protected... | 18889 0 | 7,326 | 6,354 | 150 | 6,204 | 3 | |
| | Khairi Murat Reserves... | 1886 | 14,100 | ... | ... | ... | ... | |
| | Margalla Reserve ... | 1887 | 18,909 | ... | ... | ... | ... | |
| | Total ... | ... | 92,291 | 56,806 | 814 | 55,992 | 42 | |
| Chamba ... | Bakloh ... | 1872 | 643 | 643 | ... | 643 | 42 | |
| | Kalatop and Dadra ... | 1871 | 2,602 | 2,602 | ... | 2,602 | 6 | |
| | Kainthli ... | 1882 | 964 | 964 | ... | 964 | 1 | |
| | Surkhigalli ... | 1882 | 306 | 306 | ... | 306 | 64 | |
| | Bannikhet ... | 1874 | 211 | 211 | ... | 211 | | |
| | Shahpur Kandi ... | 1882 | 8,876 | 8,882 | ... | 8,882 | 81 | |
| | Total ... | ... | 13,602 | 13,608 | ... | 13,608 | 194 | |
| Kangra ... | Lohara Khas, Jowar, Lamba sail and part of Punjal ... | 1875 | 2,000 | 2,000 | ... | 2,000 | 36 | |
| | Parts of Chabutra, Dhar, Jakh, Humal, Bakroh, Dhar Sidh and Majhaba | 1884 | 6,920 | 7,000 | ... | 7,000 | 80 | |
| | Parts of Bindraban and Karnpur bamboo Reserves ... | 1884 | 3,000 | 3,000 | ... | 3,000 | 37 | |
| | Dhamtal Reserve ... | 1879 | 624 | 624 | ... | 624 | 15 | |
| | Talara and Kalak Reserves ... | 1882 | 1,044 | 1,044 | ... | 1,044 | 15 | |
| | Mastgarh, Batoie and Swarka ... | 1885 | 587 | 587 | ... | 587 | 15 | |
| | Tatal, Mehdhar, Chatril and Jakar Reserves ... | 1882 | 3,331 | 3,331 | ... | 3,331 | 15 | |
| | Bindraban Reserve ... | 1883 | 617 | 617 | ... | 617 | 15 | |
| | Balah and Soldah Reserves ... | 1887 | 579 | 579 | ... | 579 | 15 | |
| | Hathidhar Unclassed Forests ... | 1885 | 1,200 | 1,500 | ... | 1,500 | 15 | |
| | Unclassed Forests on the sides of roads going to Sulyali ... | 1890 | 1,365 | 1,500 | ... | 1,500 | 14 | |
| | Total ... | ... | 21,267 | 21,782 | ... | 21,782 | 272 | |

# Form No. 51.

## AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1891.—concluded.

| Division. | Forest Tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1890. | During dry season of 1891 | | | Cost during the season | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempte to be protected. | Failures. | Actually protected. | | |
| Kulu ... | Sial-Bial ... | 1885 | 80 | 80 | ... | 80 | 43 | Kulu Range. |
| | Dungri .. | 1887 | 60 | 60 | ... | 60 | | |
| | Dudlu ... | 1888 | 260 | 260 | ... | 260 | | |
| | Jangar Kalaun ... | 1888 | 498 | ... | ... | ... | | |
| | Dana-bial ... | 1889 | 30 | 30 | ... | 30 | | |
| | Damsu Kalaun and Manalghan ... | 1890 | 284 | 284 | .. | 284 | | |
| | Sahita and Kandi ... | 1891 | ... | 150 | ... | 150 | | |
| | Seoraj Range 2 Forests | 1887 | 620 | 620 | ... | 620 | 43 | Seoraj Range. |
| | " 9 " | 1888 | 2,371 | 2,373 | ... | 2,373 | | |
| | " 8 " | 1889 | 660 | 320 | ... | 320 | | |
| | Parkatshil ... | 1890 | 240 | 240 | ... | 240 | | |
| | Soma Chalaon .. | 1885 | 400 | 400 | ... | 400 | 27 | Rupi Range. |
| | Rupi Range, 4 Forests .. | 1888 | 8,540 | 8,540 | ... | 8,540 | | |
| | Bindraban ... | 1889 | 223 | 223 | ... | 223 | | |
| | Kailiban and Masu Dunkri ... | 1890 | 1,030 | 1,030 | ... | 1,030 | | |
| | Piyar ... | 1891 | ... | 100 | ... | 100 | | |
| | Total ... | ... | 15,296 | 14,710 | ... | 14,710 | 113 | |
| Bashahr ... | Runang ... | 1886 | 708 | ... | ... | ... | ... | |
| | Ralli ... | 1887 | 440 | ... | .. | ... | ... | |
| | Neogli Range Reserves | 1891 | ... | 37,920 | ... | 37,920 | 26 | |
| | Pabar Range " | 1891 | ... | 6,355 | ... | 6,355 | 32 | |
| | Total ... | .. | 1,148 | 44,275 | ... | 44,275 | 58 | |
| Multan ... | Lodhran Range (forests) | . | 4,974 | 3,199 | ... | .. 3,199 | 35 | |
| | Muzaffargarh " | .. | 10,020 | 10,980 | 603 | 10,377 | 59 | |
| | Alipur " | .. | 18,813 | 16,212 | 45 | 16,167 | 134 | |
| | Rajanpur " | ... | 15,975 | 16,000 | ... | 16,000 | 85 | |
| | Total ... | ... | 49,782 | 46,391 | 648 | 45,743 | 313 | |
| Montgomery ... | Kalera ... | 1884 | 4,552 | 4,561 | ... | 4,561 | 34 | |
| | Mirdad .. | 1886 | 3,352 | 3,352 | ... | 3,352 | 8 | |
| | Montgomery ... | 1886 | 4,280 | 4,280 | 225 | 4,055 | 7 | |
| | Satghara ... | 1887 | 2,077 | 2,077 | ... | 2,077 | 10 | |
| | Ranjit Singh ... | 1886 | ... | 5,377 | ... | 5,377 | 5 | |
| | Okara .. | 1891 | ... | 4,097 | ... | 4,097 | 8 | |
| | Total ... | ... | 14,261 | 23,744 | 225 | 23,519 | 72 | |
| Ambala ... | Kalesar ... | 1882 | 390 | 2,389 | ... | 2,389 | 378 | |
| | Sabathu ... | 1887 | 370 | 370 | ... | 370 | 41 | |
| | Dagshai ... | 1888 | 361 | 400 | ... | 400 | 38 | |
| | Total ... | ... | 1,121 | 3,159 | ... | 3,159 | 457 | |
| | Grand Total ... | ... | 2,14,075 | 2,27,113 | 1,587 | 2,25,426 | 1,554 | |
| | Total for 1889-90 ... | ... | 2,52,937 | 2,73,493 | 59,418 | 2,14,075 | 2,299 | |

# Form No. 52.

## AREA OF PLANTATIONS, 1890-91.

| Division. | Name of Plantation | Area in Acres. On 1st April 1890. | Added during the year. | Excluded during the year. | Area on 31st March 1891. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | **Regular Plantations.** | | | | | | | |
| Kulu ... | Manali Forest garden | 5 | ... | ... | 5 | ... | ... | |
| | Lee garden ... | 4 | ... | ... | 4 | ... | ... | |
| Bashahr ... | Sholtu ... | 6 | ... | ... | 6 | ... | 199 | On orchards. |
| Jhelum ... | Pira Ghaib ... | 200 | ... | ... | 200 | ... | ... | |
| | Gandhala ... | 25 | ... | ... | 25 | ... | ... | |
| Chenab ... | Belas Nath and Pindi Tatar ... | 173 | 8 | ... | 181 | 18 | 108 | |
| | Belas Sadhoki ... | 1 | ... | ... | 1 | ... | ... | |
| | Do. Kotli Gohan ... | 8 | ... | ... | 8 | ... | ... | |
| | Do. Thatta Faqirulla | 412 | ... | ... | 412 | 50 | 21 | |
| | Ghazi Chak ... | 5 | ... | ... | 5 | ... | ... | |
| Lahore ... | Changa Manga ... | 9,080 | 2 | 2 | 9,080 | 44,152 | 20,737 | |
| | Shahdera-*cum*-Jugian | 1,113 | 3 | 2 | 1,114 | 17,246 | 100 | |
| | Sadhanwali ... | 334 | .. | ... | 334 | 253 | ... | |
| | Jhoke ... | 1,021 | 11 | 8 | 1,024 | 1,969 | 182 | |
| | Nag ... | 412 | ... | ... | 412 | 640 | ... | |
| | Carob plantation ... | 23 | ... | ... | 23 | 334 | 181 | |
| Ambala ... | Jullundur ... | 51 | ... | ... | 51 | 179 | ... | |
| | Phillour ... | 220 | ... | ... | 220 | 739 | 91 | |
| | Ludhiana ... | 197 | ... | ... | 197 | ... | ... | |
| | Sabathu ... | 310 | 49 | 49 | 310 | 571 | 321 | |
| | Jagadhri ... | 201 | ... | .. | 201 | ... | ... | |
| | Dagshai ... | 400 | 300 | 300 | 400 | 506 | 1,221 | |
| | Total Regular Plantations ... | 14,201 | 373 | 361 | 14,213 | 66,657 | 23,161 | |
| | **Cultural Operations.** | | | | | | | |
| Hazara ... | Changlagali, No. 1 ... | 44 | ... | ... | 44 | ... | ... | ¼ Acre or 10,000 square feet. Transplanting 2,025 deodar, 47 cypress. |
| | Do. No. 3 ... | ... | ... | ... | ... | ... | ... | |
| | Do. Forest house plot ... | 7 | 2 | ... | 9 | ... | 7 | |
| | Kujagali ... | 16 | ... | ... | 16 | ... | ... | |
| | Kutli ... | 10 | ... | ... | 10 | ... | ... | |
| | Malkandi, No. 1 ... | 8 | ... | ... | 8 | ... | ... | |
| | Do. No. 2 ... | 2 | ... | ... | 2 | ... | ... | |
| | Do. No. 3 ... | 40 | ... | ... | 40 | ... | ... | |
| | Nuri ... | 5 | ... | ... | 5 | ... | ... | |
| | Mari ... | 5 | ... | ... | 5 | ... | ... | |
| | Karala ... | 3 | ... | ... | 3 | ... | ... | |
| | Makhanyal ... | 2 | ... | ... | 2 | ... | ... | |
| | Garmthun. Mela-ka-Ochar | 42 | 95 | 100 | 754 | ... | 72 | |
| | Garmthun. Lalumar ... | 232 | | | | | | |
| | Garmthun. Kotjandan ... | 132 | | | | | | |
| | Garmthun. Toba Danda... | 5 | | | | | | |
| | Garmthun. Bijumar ... | 348 | | | | | | |
| | Tajwal. Meurti ... | 1 | ... | ... | 1 | ... | ... | |
| | Tajwal. Mauji Keri ... | 9 | ... | ... | 9 | ... | ... | |
| | Tajwal. Bijuban ... | 5 | ... | ... | 5 | ... | ... | |
| | Tajwal. Chachan ... | 3 | ... | ... | 3 | ... | ... | |
| | Tajwal. Mandiali ... | 2 | ... | ... | 2 | ... | ... | |
| | 8 Miscellaneous plots... | 6 | ... | ... | 6 | ... | ... | |
| | Malkandi, No. 4 ... | 33 | ... | ... | 33 | ... | ... | |
| | Nuri No. 2 ... | | | | | | | |
| | Kamalban ... | 100 | ... | ... | 100 | ... | ... | |
| | Nuri, No. 3 ... | | | | | | | |
| | *Carried over* ... | 1,060 | 97 | 100 | 1,057 | ... | 79 | |

# Form No. 52.

AREA OF PLANTATIONS, 1890-91.—(continued).

| Division. | Name of Plantation. | Area in Acres. On 1st April 1890. | Added during the year. | Excluded during the year. | Area on 31st March 1891. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | *Brought forward* ... | 1,060 | 97 | 100 | 1,057 | .. | 79 | |
| | Cultural Operations—continued. | | | | | | | |
| Hazara ... | Bagan-Aru-ka-Bagla ... | 4 | ... | ... | 4 | ... | ... | |
| | Bagan, Kundlagali ... | 9 | . | .. | 9 | ... | ... | |
| | Dunga-Nathiagali ... | 1 | ... | ... | 1 | ... | ... | |
| | Diwan Bela ... | 53 | 24 | ... | 77 | ... | 63 | |
| | Kamalban, Surboyla .. | 55 | 2 | ... | 57 | ... | 8 | |
| | Chumbi (Sir) ... | 19 | ... | ... | 19 | ... | ... | |
| | Shinu, Nuri Khas, Bhujian, Gandaka Nakka and Baggaban ... | 16 | 15 | ... | 31 | ... | 35 | |
| | Darwaza, Palak } Chumbi ... | 3 | ... | ... | 3 | ... | .. | |
| | Darwaza { Satnara, Kali Kutli, Rhinka Nakka } | 10 | ... | ... | 10 | ... | ... | |
| | Jawalian, Choi Ochar ... | 20 | 30 | ... | 50 | ... | 24 | |
| | Kerwali, Galian Ochar | 33 | ... | ... | 33 | ... | ... | |
| | Kund Patti ... | 3 | ... | ... | 3 | ... | ... | |
| | Miscellaneous petty operations. .. | ... | ... | ... | ... | ... | 411 | |
| | Total ... | 1,285 | 168 | 100 | 1,354 | ... | 620 | |
| Rawalpindi ... | Barakao (Margala) ... | 86 | ... | ... | 86 | ... | 70 | |
| | Pind Gondal ( do. ) | 9 | ... | 9 | ... | ... | ... | |
| | Karang Nadi( do. ) | 6 | ... | 6 | ... | ... | ... | |
| | Athal (Banigala) ... | 13 | ... | 13 | ... | ... | ... | |
| | Kharimurat (Nos. I to X) ... | 30 | ... | 30 | ... | ... | ... | |
| | Kuherta and Bariar ... | 9 | ... | 9 | ... | ... | ... | |
| | Patriata ... | 2 | ... | 2 | ... | ... | ... | |
| | Salitha ... | 1 | ... | 1 | ... | ... | ... | |
| | Total ... | 156 | ... | 70 | 86 | ... | 70 | |
| Chamba ... | Pangi various ... | 64 | ... | ... | 64 | .. | ... | |
| | Bassu ... | 149 | ... | ... | 149 | ... | ... | * Cost includes Rs. 352 spent on nurseries. |
| | Dhauri ... | 25 | ... | ... | 25 | ... | ... | |
| | Kalatop * ... | 280 | 35 | 7 | 308 | ... | 707 | |
| | Kainthli ... | 142 | 10 | 9 | 143 | ... | 69 | Do. Rs. 37. |
| | Majour ... | 1 | ... | ... | 1 | ... | ... | |
| | Cherri ... | 2 | ... | .. | 2 | ... | ... | |
| | Padri-Bohar † ... | 100 | 20 | ... | 120 | ... | 373 | †Do. Rs. 298. |
| | Chatri ‡ ... | 43 | 61 | 38 | 66 | ... | 244 | |
| | Khanni ... | 5 | ... | ... | 5 | ... | ... | ‡Do. Rs. 107. |
| | Chadbhont ‖ ... | 1 | 4 | ... | 5 | ... | 249 | |
| | Sakral ... | 2 | ... | .. | 2 | ... | ... | ‖ Do. Rs. 201. |
| | Total ... | 814 | 130 | 54 | 890 | ... | 1,642 | |
| Kangra ... | Chatril Reserve ... | 52 | ... | ... | 52 | ... | ... | |
| | Tatal do. ... | 96 | ... | 10 | 86 | ... | ... | |
| | Bindraban do. .. | 11 | ... | .. | 11 | .. | ... | |
| | Dhamtal do. ... | 40 | ... | 10 | 30 | ... | ... | |
| | Mehdar do. ... | 2 | ... | ... | 2 | ... | ... | |
| | Jakar do. ... | 25 | ... | 10 | 15 | ... | ... | |
| | Ballah do. ... | 3 | ... | ... | 3 | ... | ... | |
| | Nalian do. ... | 19 | ... | ... | 19 | ... | ... | |
| | Jamoli do. ... | 5 | ... | ... | 5 | ... | ... | |
| | Balwal do. ... | 5 | ... | ... | 5 | ... | .. | |
| | Samlian do. ... | 280 | ... | ... | 280 | ... | 33 | |
| | Tilli do. ... | 5 | 2 | ... | 7 | ... | 72 | |
| | *Carried over* ... | 543 | 2 | 30 | 515 | ... | 105 | |

# Form No. 52.

## AREA OF PLANTATIONS, 1890-91.—(continued).

| Division. | Name of Plantation. | Area in Acres. On 1st April 1890. | Added during the year. | Excluded during the year. | Area on 31st March 1891. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | *Brought forward* ... | 543 | 2 | 30 | 515 | ... | 105 | |
| | Cultural Operations—continued. | | | | | | | |
| Kangra .. | Darang Reserve ... | 20 | ... | ... | 20 | ... | 13 | |
| | Habrol do. ... | 8 | .. | ... | 8 | ... | ... | |
| | Karnpur do. ... | 25 | 2 | ... | 27 | ... | 74 | |
| | Bindraban do. ... | 5 | ... | ... | 5 | ... | ... | |
| | Lohara A in 6 places... | 35 | ... | ... | 35 | ... | 8 | |
| | " B in 4 places... | 15 | ... | ... | 15 | ... | ... | |
| | Panjal Reserve .. | 4 | ... | ... | 4 | ... | ... | |
| | Dharni do. ... | 1 | ... | ... | 1 | ... | ... | (a) Due to re-measurement of the planted area. |
| | Bajori in Hamirpur ... | 6 | ... | ... | 6 | ... | ... | |
| | Baldoa Reserve ... | 7 | ... | ... | 7 | ... | ... | |
| | Badiana ... | 45 | ... | ... | 45 | ... | ... | |
| | Hamirpur Trihais ... | 114 | 4 | ... | 118 | ... | 5 | |
| | Baghrian Reserve ... | 500 | (a) 26 | ... | 526 | 218 | ... | (b) Lost by river action. |
| | Mullanwal do. ... | 25 | ... | (b) 12 | 13 | | ... | |
| | Nurpur fruit nursery... | 1 | ... | ... | 1 | ... | 24 | |
| | Dera nursery ... | 1 | ... | 1 | ... | ... | ... | Nursery has been abandoned. |
| | Total ... | 1,355 | 34 | 43 | 1,346 | 218 | 229 | |
| Kulu ... | Dungri .. | 34 | ... | ... | 34 | ... | ... | |
| | Manalghan ... | 53 | ... | ... | 53 | ... | ... | |
| | Dana-bial ... | 27 | ... | ... | 27 | ... | ... | |
| | Sial-bial ... | 66 | .. | ... | 66 | ... | ... | |
| | Manalgahr ... | 41 | ... | ... | 41 | ... | ... | |
| | Bai-Padri ... | 12 | ... | ... | 12 | ... | ... | |
| | Dani Deo ... | 33 | 6 | 4 | 35 | ... | 55 | |
| | Chasal, Upper ... | 14 | ... | ... | 14 | ... | ... | |
| | Do. Lower ... | 5 | ... | ... | 5 | ... | 49 | |
| | Shalingar ... | 35 | ... | ... | 35 | ... | ... | |
| | Dudlu ... | 53 | 2 | ... | 55 | ... | 13 | |
| | Brunudhar ... | 22 | 3 | ... | 25 | ... | 22 | |
| | Padri Chalarn ... | 14 | ... | ... | 14 | ... | ... | |
| | Batar Bial ... | 5 | 2 | ... | 7 | ... | 7 | |
| | Deoban ... | 18 | ... | ... | 18 | ... | 17 | |
| | Sesni ... | 6 | ... | ... | 6 | ... | ... | |
| | Phetaban ... | 1 | ... | ... | 1 | ... | ... | |
| | Ledi Chalaon ... | 2 | ... | ... | 2 | ... | ... | |
| | Shejuni ... | 6 | ... | ... | 6 | ... | ... | |
| | Fojal Kalaon ... | 6 | .. | ... | 6 | ... | ... | |
| | Seta Dhag ... | 11 | 3 | 3 | 11 | ... | 30 | |
| | Rehni ... | 6 | 2 | ... | 8 | ... | 13 | |
| | Lomban ... | ... | 1 | ... | 1 | ... | 6 | |
| | Sandhar ... | 5 | ... | ... | 5 | ... | ... | |
| | Gogarsil ... | 3 | ... | ... | 3 | ... | 8 | |
| | Chhota Shunjra ... | ... | 5 | ... | 5 | ... | 27 | |
| | Lot ... | 1 | ... | ... | 1 | ... | ... | |
| | Devi-di-Jhir ... | 5 | ... | ... | 5 | ... | ... | |
| | Bindraban Jerri ... | 24 | ... | ... | 24 | ... | 20 | |
| | Soma Chalaon ... | 59 | 3 | ... | 62 | ... | 21 | |
| | Phulga ... | 15 | ... | ... | 15 | ... | 3 | |
| | Kashol ... | 6 | ... | ... | 6 | ... | ... | |
| | Dukhri ... | 10 | 5 | ... | 15 | ... | 22 | |
| | Ilagahr ... | 8 | 2 | .. | 10 | ... | 7 | |
| | Sawani ... | 7 | ... | ... | 7 | ... | ... | 10 acres sown broad-cast, cost *nil*. |
| | Tandi ... | 10 | 5 | ... | 15 | ... | 18 | |
| | Bithu Kandu ... | ... | 5 | ... | 5 | ... | 23. | |
| | Gohi ... | ... | 4 | ... | 4 | ... | 17 | |
| | Daogi ... | 4 | 1 | ... | 5 | ... | 10 | |
| | Latura ... | 42 | ... | ... | 42 | ... | 8 | |
| | Blajdhar ... | 9 | ... | ... | 9 | ... | 5 | |
| | Salono ... | 8 | 4 | ... | 12 | ... | 8 | |
| | Jaun-Kalann ... | ... | ... | ... | ... | ... | 12 | Nursery—15 acres sown broad-cast, cost Rs. 7-15-6. |
| | Jibi ... | 3 | 2 | ... | 5 | ... | 6 | |
| | Ramgarh ... | 5 | 1 | 1 | 5 | ... | 12 | |
| | Silla ... | 5 | 2 | 2 | 5 | ... | 8 | |
| | Phone ... | 9 | .... | ... | 9 | ... | ... | |
| | Ratho ... | 30 | ... | ... | 30 | ... | ... | |
| | Bagi ... | 3 | 2 | 2 | 3 | ... | 14 | |
| | Jiya ... | 1 | ... | ... | 1 | ... | ... | |
| | Nagar compound ... | ... | ... | ... | ... | ... | 7 | Trees planted for ornament only. |
| | Total ... | 742 | 60 | 12 | 790 | ... | 468 | |

# Form No. 52.

## AREA OF PLANTATIONS, 1890-91.—(continued).

| Division. | Name of Plantation. | Area of Acres. On 1st April 1890. | Added during the year | Excluded during the year. | Area on 31st March 1891. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | Cultural Operations—continued. | | | | | | | |
| Bashahr ... | Nachar, East ... | 146 | ... | ... | 146 | ... | 20 | |
| | Runang ... | 36 | 10 | ... | 46 | ... | 126 | |
| | Sapni-kum Kumi .. | 250 | 54 | .. | 304 | ... | 96 | |
| | Kanahi ... | 4 | ... | ... | 4 | ... | 7 | |
| | Kilba ... | 37 | ... | ... | 37 | ... | 9 | |
| | Darkali and Kashapat | 4 | ... | ... | 4 | ... | ... | |
| | Taranda ... | 4 | ... | ... | 4 | ... | ... | |
| | Gutrang ... | 12 | ... | ... | 12 | ... | ... | |
| | Nachar, West ... | 5 | ... | ... | 5 | ... | ... | |
| | Tanglang. ... | 8 | ... | ... | 8 | ... | ... | |
| | Jani ... | 10 | ... | ... | 10 | ... | ... | |
| | Panwi ... | 9 | ... | ... | 9 | ... | ... | |
| | Kulba ... | 2 | ... | ... | 2 | ... | ... | |
| | Junpan-Phinla .. | 13 | ... | ... | 13 | .. | ... | |
| | Tikru-Wasankan ... | 12 | ... | ... | 12 | ... | 1 | On nurseries. |
| | Punang ... | 10 | ... | ... | 10 | ... | 4 | Do. |
| | Ralli ... | 6 | ... | ... | 6 | ... | 15 | |
| | Shimolang ... | 5 | 1 | ... | 6 | ... | 24 | |
| | Jangi Kirang ... | 5 | ... | ... | 5 | ... | 48 | |
| | Buling ... | 4 | ... | ... | 4 | ... | 30 | |
| | Shil ... | 1 | ... | ... | 1 | ... | 18 | |
| | Ramni ... | ... | 12 | ... | 12 | ... | ... | |
| | Total ... | 583 | 77 | ... | 660 | ... | 398 | |
| Jhelum ... | Ban Faqirulla ... | 3 | ... | ... | 3 | ... | 3 | |
| | Garat ... | 10 | ... | ... | 10 | .. | ... | |
| | Diljabba ... | 7 | ... | 7 | ... | ... | ... | |
| | Total ... | 20 | ... | 7 | 13 | ... | 3 | |
| Chenab ... | Pabbi .. | 751 | 56 | 24 | 783 | 190 | 781 | |
| | Ishar ... | 44 | 35 | 15 | 64 | ... | 74 | |
| | Deowal .. | 61 | 47 | 40 | 68 | ... | 80 | Includes Rs. 14, cost of sowing broad-cast 19 acres. |
| | Pakhowal ... | 15 | 26 | ... | 41 | ... | * 61 | |
| | Kikranwali ... | ... | ... | ... | ... | 125 | 16 | |
| | Chichra ... | ... | ... | ... | ... | 15 | 15 | |
| | Wazirabad nursery ... | ... | ... | ... | ... | ... | 16 | *Includes Rs. 12, cost of sowing broad-cast 14 acres not included in area added. |
| | Total ... | 871 | 164 | 79 | 956 | 330 | 1,043 | |
| Lahore ... | Kot Lakhpat ... | 220 | ... | ... | 220 | 345 | 17 | |
| | Dhig ... | 45 | ... | ... | 45 | ... | ... | |
| | Sarai Amanat Khan ... | ... | 36 | 18 | 18 | ... | 40 | |
| | Total ... | 265 | 36 | 18 | 283 | 345 | 57 | |
| Multan ... | Makhan Bela ... | 3 | 1 | 3 | 1 | ... | 3 | |
| | Makhdum Vinoi ... | 101 | ... | 71 | 30 | ... | 7 | |
| | Nawraja Bhuta ... | 8 | 10 | 18 | ... | ... | 1 | |
| | Dhamerwala ... | 8 | 5 | 8 | 5 | ... | 3 | |
| | Kureshi ... | 328 | 6 | 232 | 102 | ... | ... | |
| | Jalwala ... | 2 | 1 | 1 | 2 | ... | 2 | |
| | Bakaini ... | 20 | ... | 20 | ... | ... | ... | |
| | Dandewala ... | 6 | 2 | 7 | 1 | ... | ... | |
| | Ranuja ... | 5 | 1 | 6 | ... | ... | ... | |
| | Sohni ... | 40 | 6 | 44 | 2 | ... | 1 | |
| | Alipur Tofapur ... | 3 | 3 | 5 | 1 | ... | 5 | |
| | Arbi ... | 1 | ... | ... | 1 | ... | 452* | * Includes Rs. 450 spent on clearing silt from 3¼ miles of trenches for irrigation purposes. |
| | Shujaitpur ... | 1 | 3 | 4 | ... | ... | 4 | |
| | Jhelarian ... | 6 | 3 | 1 | 8 | ... | 6 | |
| | Isanwala ... | 2 | 6 | 5 | 3 | ... | 1 | |
| | Diwan Sahib ... | 4 | ... | 4 | ... | ... | ... | |
| | Chhina Malana ... | 1 | 4 | 1 | 4 | ... | 2 | |
| | Akil ... | 1 | 5 | 6 | ... | ... | 1 | |
| | Pakka Haji Maji ... | 1 | 1 | 2 | ... | ... | 13 | |
| | *Carried over* ... | 541 | 57 | 438 | 160 | ... | 501 | |

# Form No. 52.

## AREA OF PLANTATIONS, 1890-91.—(concluded).

| Division. | Name of Plantation | Area in Acres. On 1st April 1890. | Added during the year. | Excluded during the year. | Area on 31st March 1891. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | *Brought forward* | 541 | 57 | 438 | 160 | ... | 501 | |
| | Cultural Operations—concluded. | | | | | | | |
| Multan ... | Dhaushikani | 1 | .. | 1 | ... | ... | ... | |
| | Sharf | ... | 5 | 5 | ... | ... | ... | |
| | Tajwana | ... | 4 | 4 | .. | ... | ... | |
| | Chak Kaora | ... | 3 | 3 | ... | ... | ... | |
| | Sahuki | ... | 7 | 7 | ... | ... | ... | |
| | Khanwah Reserve | ... | 10 | ... | 10 | ... | 2 | |
| | Khudai | ... | 3 | 2 | 1 | ... | 3 | |
| | Fazilpur | ... | 5 | 5 | ... | ... | 1 | |
| | Rekh | ... | 5 | 5 | ... | | | |
| | Bura Kotla | ... | 530 | 330 | 200 | ... | 17 | |
| | Dangra | ... | 5 | 4 | 1 | ... | 2 | |
| | Total ... | 542 | 634 | 804 | 372 | ... | 526 | |
| Montgomery ... | Okara ... | 22 | ... | ... | 22 | ... | ... | |
| | Total ... | 22 | ... | ... | 22 | ... | ... | |
| Simla Hill Tracts. | Jutogh ... | ... | 20 | ... | 20 | 64 | 202 | |
| | Kot Khai and Kotguru | ... | ... | ... | ... | ... | 3 | On nursery. |
| | Total ... | ... | 20 | ... | 20 | 64 | 205 | |
| | Total of Cultural Operations ... | 6,656 | 1,323 | 1,187 | 6,792 | 957 | 5,261 | |
| | Grand Total of Plantations and Cultural Operations ... | 20,857 | 1,696 | 1,548 | 21,005 | 67,614 | 28,422 | |

### ABSTRACT OF CHANGES IN AREA OF PLANTATIONS.

| | Acres. | | Acres. |
|---|---|---|---|
| *Total Plantations of all classes* ... .. ... ... | | | 20,857 |
| *Add*— | | | |
| Work actually done during the year ... ... | 1670 | | |
| By correction of area ... ... ... | 26 | | |
| | | 1,696 | |
| *Deduct*— | | | |
| Failures struck off ... ... ... ... | 1,536 | | |
| Lost by river action ... ... ... .. | 12 | | |
| | | 1,548 | |
| *Net addition* ... . ... | | | 148 |
| *Total of all classes on 31st March* 1891 ... ... .. .. | | | 21,005 |

### ABSTRACT OF CHARGES.

| | Rs. | Rs. |
|---|---|---|
| Cost of regular plantations ... ... ... | 23,161 | |
| „ of cultural operations ... ... ... | 5,261 | |
| | | 28,422 |
| Add cost of seed, &c. ... ... ... | 78 | |
| „ erroneously charged to A VIII *d* in Chamba and Chenab ... ... ... ... | 106 | 184 |
| Total ... ... | | 28,606 |
| Deduct expenditure debited to AVIII *f* in Hazara and Bashahr ... ... | 30 | |
| „ „ erroneously debited to AIE in Multan Division ... ... | 450 | |
| „ „ debited to AVIII *e* in Simla Hill Tracts (Direction Division) .. | 1 | |
| | | 481 |
| Expenditure under AVIII *d* as per Form No. 58 ... ... | | 28,125 |

# Form No. 54.

## OUTTURN (IN CUBIC FEET SOLID) OF TIMBER AND FUEL DURING THE YEAR 1890-91 AND AGENCY OF EXPLOITATION.

| Division. | Timber in the rough; Logs. | | | | | Timber in the rough; Poles. | | | | | Sawn or squared Timber. | | | | | Miscellaneous. | | | | | Fuel. | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Outturn. |
| | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. |
| **I.—RESERVED FORESTS.** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hazara ... | 1,31,224 | 33,715 | (a) 900 | ... | 1,65,839 | 200 | 1,200 | ... | ... | 1,400 | 13,166 | 2 | ... | ... | 13,167 | ... | 20 | ... | ... | 20 | 23,637 | 99,210 | (b) 5,821 | (c) 34,980 | 1,63,648 | 3,44,074 |
| Rawalpindi ... | ... | 68,426 | ... | ... | 68,426 | ... | 1,512 | ... | ... | 1,512 | ... | 1,196 | ... | ... | 1,196 | ... | 28 | ... | ... | 28 | ... | 4,83,963 | ... | (f) 4,37,572 | 9,21,535 | 9,92,696 |
| Chamba ... | 4,15,174 | 708 | ... | (g) 518 | 4,16,400 | 22 | ... | ... | (g) 124 | 146 | 31,090 | ... | ... | ... | 31,090 | ... | ... | ... | ... | ... | 60 | 53,878 | ... | ... | 53,938 | 5,01,574 |
| Kangra ... | ... | 36,774 | ... | ... | 36,774 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,204 | ... | ... | 4,204 | 40,978 |
| Bashahr ... | 2,00,980 | ... | ... | ... | 2,00,980 | ... | ... | ... | ... | ... | 34,384 | ... | ... | ... | 34,384 | 228 | ... | ... | ... | 228 | ... | ... | ... | ... | ... | 2,35,592 |
| Jhelum ... | ... | 193 | ... | ... | 193 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,374 | 1,255 | (i) 33,142 | (i) 2,28,400 | 2,66,261 | 2,66,454 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 7,010 | ... | ... | 7,010 | 7,010 |
| Lahore ... | 15,594 | 128 | ... | ... | 15,722 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5,34,072 | 9,135 | ... | ... | 5,43,207 | 5,58,929 |
| Multan ... | ... | ... | ... | ... | ... | ... | 1,072 | ... | ... | 1,072 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5,95,111 | 2,83,939 | ... | ... | 8,79,050 | 8,80,122 |
| Montgomery ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,59,870 | 609 | ... | ... | 4,60,479 | 4,60,479 |
| Ambala ... | ... | ... | ... | ... | ... | 224 | ... | ... | ... | 224 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 5,005 | ... | ... | 5,010 | 5,234 |
| Simla Hill Tracts, | ... | ... | (n) 4,548 | (n) 5,184 | 9,732 | ... | ... | ... | ... | ... | 908 | ... | ... | ... | 908 | ... | ... | ... | ... | ... | ... | 2 | ... | (n) 69,124 | 69,126 | 79,766 |
| Total ... | 7,62,972 | 1,39,944 | 5,448 | 5,702 | 9,14,066 | 446 | 3,784 | ... | 124 | 4,354 | 79,547 | 1,197 | ... | ... | 80,744 | 228 | 48 | ... | ... | 276 | 16,16,129 | 9,48,210 | 38,963 | 7,70,166 | 33,73,468 | 43,72,998 |
| **II.—PROTECTED FORESTS.** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rawalpindi ... | ... | 22,595 | ... | (d) 540 | 23,135 | ... | 3 | ... | (e) 150 | 153 | ... | 114 | ... | ... | 114 | ... | 10 | ... | ... | 10 | ... | 32,520 | ... | (f) 24,98,226 | 25,30,746 | 25,54,158 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,69,274 | ... | ... | 4,69,274 | 4,69,274 |
| Total ... | ... | 22,595 | ... | 540 | 23,135 | ... | 3 | ... | 150 | 153 | ... | 114 | ... | ... | 114 | ... | 10 | ... | ... | 10 | ... | 5,01,794 | ... | 24,98,226 | 30,00,020 | 30,23,432 |

## III.—UNCLASSED FORESTS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rawalpindi ... | ... | 2,800 | ... | (d) 30,540 | 33,340 | ... | 431 | ... | (e) 7,512 | 7,943 | ... | 799 | .. | ... | 799 | ... | 135 | ... | ... | 135 | .... | 696 | ... | (f) 1,800 | 2,296 | 44,513 |
| Kangra ... | ... | 70,006 | (h) 713 | (i) 1,31,622 | 2,02,341 | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 13,821 | ... | (i) 6,459 | 20,280 | 2,22,621 |
| Kulu ... | 14,241 | ... | ... | ... | 14,241 | ... | 2,367 | ... | ... | 2,367 | 19,304 | 1,199 | ... | ... | 20,503 | ... | 41,404 | (j) 10,534 | (j) 4,51,220 | 5,03,158 | ... | 3,903 | ... | (j) 1,38,70,000 | 1,38,73,903 | 1,44,14,072 |
| Bashahr ... | ... | ... | .. | ... | ... | ... | 200 | (k) 35,340 | ... | 35,540 | ... | ... | (k) 11,350 | ... | 11,350 | ... | ... | ... | ... | ... | ... | ... | ... | (k) 87,60,000 | 87,60,000 | 88,06,890 |
| Jhelum ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | 406 | 462 | (l) 8,394 | (l) 1,80,000 | 1,89,262 | 1,89,262 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 72,233 | ... | ... | 72,233 | 72,233 |
| Lahore ... | 1,613 | 2,342 | .. | ... | 3,955 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,457 | 1,748 | (m) 2,484 | ... | 8,689 | 13,644 |
| Multan ... | ... | ... | .. | ... | ... | ... | 5,291 | ... | ... | 5,291 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 50,342 | ... | ... | 50,342 | 55,633 |
| Montgomery ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,113 | ... | ... | 4,113 | 4,56,526 | 48,608 | ... | ... | 5,05,134 | 5,09,247 |
| Ambala ... | ... | ... | . | . | ... | ... | ... | .. | ... | ... | ... | . | ... | ... | ... | ... | ... | ... | ... | ... | ... | 64 | ... | ... | 64 | 64 |
| TOTAL ... | 15,854 | 75,148 | 713 | 1,62,162 | 2,53,877 | ... | 8,289 | 35,340 | 7,512 | 51,141 | 19,304 | 1,998 | 11,350 | ... | 32,652 | ... | 45,652 | 10,534 | 4,51,220 | 5,07,406 | 4,61,389 | 1,91,777 | 10,878 | 2,28,18,059 | 2,34,82,103 | 2,43,27,179 |

## ABSTRACT.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reserved Forests... | 7,62,972 | 1,39,944 | 5,448 | 5,702 | 9,13,066 | 446 | 3,784 | ... | 124 | 4,354 | 79,547 | 1,197 | ... | ... | 80,744 | 228 | 48 | ... | ... | 276 | 16,16,129 | 9,48,210 | 38,963 | 7,70,166 | 33,73,468 | 43,72,908 |
| Protected ,, ... | ... | 22,595 | ... | 540 | 23,135 | ... | 3 | ... | 150 | 153 | ... | 114 | ... | ... | 114 | ... | 10 | ... | ... | 10 | ... | 5,01,794 | ... | 24,98,226 | 30,00,020 | 30,23,432 |
| Unclassed ,, ... | 15,854 | 75,148 | 713 | 1,62,162 | 2,53,877 | ... | 8,289 | 35,340 | 7,512 | 51,141 | 19,304 | 1,998 | 11,350 | ... | 32,652 | ... | 45,652 | 10,534 | 4,51,220 | 5,07,406 | 4,61,389 | 1,91,777 | 10,878 | 2,28,18,059 | 2,34,82,103 | 2,43,27,179 |
| TOTAL ... | 7,78,826 | 2,37,687 | 6,161 | 1,68,404 | 11,91,078 | 446 | 12,076 | 35,340 | 7,786 | 55,648 | 98,851 | 3,309 | 11,350 | ... | 1,13,510 | 228 | 45,710 | 10,534 | 4,51,220 | 5,07,692 | 20,77,518 | 16,41,781 | 49,841 | 2,60,86,451 | 2,98,55,591 | 3,17,23,519 |
| TOTAL FOR 1889-90 | 4,83,408 | 1,91,714 | ... | 2,60,454 | 9,35,576 | 1,353 | 52,072 | 5,43,760 | 28,133 | 6,25,316 | 2,04,271 | 518 | 1,27,300 | ... | 3,32,069 | 7,237 | 47,516 | 16,606 | 8,81,105 | 9,52,466 | 19,09,840 | 29,06,973 | 71,632 | 1,92,84,567 | 2,41,72,012 | 2,70,17,461 |

Fuel, Government Agency—41,00,356 cubic feet firewood entered in Form 56 under head "Received from forests during the year," equal 20,77,518 cubic feet entered in this Form, column "Government."

(1). *Hazara Division*—(a). Punjab Government No. 396, dated 9th September 1890 and No. 127, dated 24th March 1890, Value Rs. 140.
(b). Punjab Government No. 417, dated 30th August 1888, Value Rs. 30,
(c). Value Rs. 182.

(2). *Rawalpindi* ,, —(d). Estimated Value Rs. 2,662.
(e). Estimated Value Rs. 290.
(f). Estimated Value Rs. 68,971.

(3). *Chamba* ,, —(g). Value Rs. 31.

(4). *Kangra* ,, —(h). Punjab Government No. 479, dated 6th November 1890, Value Rs. 266.
(i). Estimated Value Rs. 8,001.

(5). *Kulu* ,, —(j). 10,534 cubic feet timber given for local works, 4,51,220 cubic feet timber and 1,38,70,000 cubic feet fuel granted for building and other domestic purposes valued at Rs. 73,619.

(6). *Bashahr* ,, —(k). 40,690 cubic feet timber given as free grants, valued at Rs. 829 and 87,60,000 cubic feet firewood removed by right-holders, for building, agricultural and other domestic purposes.

(7). *Jhelum* ,, —(l). Firewood under free grants and right-holders was removed by members of Salt Department and villagers residing in the vicinity of forests for their household consumption.

(8). *Lahore* ,, —(m). 2,484 cubic feet firewood removed by Mahant of Bhai Pheru.

(9). *Simla Hill Tracts*—(n). 4,548 cubic feet timber given for Public Works, valued at Rs. 110 and 5,184 cubic feet timber and 69,124 cubic feet firewood removed by right-holders for building and other domestic purposes.

# Form No. 55.

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1890-91.

| Division. | Description of Produce. | Produce Removed or Utilized. By Government Agency. Quantity. | By Government Agency. Value. | By Purchasers. Quantity. | By Purchasers. Value. | By Free grants. Quantity. | By Free grants. Value. | By Right-holders. Quantity. | By Right-holders. Value. | Total. Quantity. | Total. Value. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| | **RESERVED FORESTS.** | | | | | | | | | | | |
| Hazara ... | Grazing by leases (acres) ... ... | ... | ... | 31.198 | 1.110 | ... | ... | ... | ... | 31,198 | 1.110 | |
| | " by permits (No. of cattle) ... | ... | ... | 4,399 | 1.088 | ... | ... | ... | ... | 4,399 | 1.088 | |
| | " by settlement (acres) ... ... | ... | ... | ... | ... | ... | ... | 10.422 | 357 | 10.422 | 357 | |
| | Grass cutting by permits (loads)... ... | ... | .. | 23.640 | 409 | 1,440 | 24 | ... | ... | 25.080 | 433 | |
| | " by leases (acres) ... ... | ... | ... | 83,244 | 5,115 | ... | ... | ... | ... | 83.244 | 5.115 | |
| | " Contracts (loads) ... ... | ... | ... | 19,712 | 616 | ... | ... | ... | .. | 19,712 | 616 | |
| | " " (maunds) ... ... | ... | ... | 12,575 | 393 | ... | ... | ... | ... | 12,575 | 393 | |
| | " by permits (men) ... ... | ... | ... | 66 | 133 | ... | ... | ... | ... | 66 | 133 | |
| | " by settlement (acres) ... ... | ... | ... | ... | ... | ... | ... | 3.072 | 276 | 3.072 | 276 | |
| | Leaf fodder by " " ... ... | ... | ... | ... | ... | ... | ... | 446 | 50 | 446 | 50 | |
| | Turpentine (maunds) ... ... ... | 2 | 12 | ... | ... | ... | ... | ... | ... | 2 | 12 | |
| | Kuth roots ( " ) ... ... ... | 3 | 30 | ... | ... | ... | ... | ... | ... | 3 | 30 | |
| | Chir bark ( " ) ... ... ... | ... | ... | 18 | 9 | ... | ... | ... | ... | 18 | 9 | |
| | Imli and Bhan leaves (loads) ... ... | ... | ... | 144 | 36 | ... | ... | ... | ... | 144 | 36 | |
| | Mushkbala (maunds) ... ... ... | ... | ... | 160 | 80 | ... | ... | ... | ... | 160 | 80 | |
| | Pomegranates (maunds) ... ... | .. | ... | 6 | 3 | ... | ... | ... | ... | 6 | 3 | |
| | Stone (cubic feet) ... ... ... | ... | ... | 540 | 1 | ... | ... | ... | ... | 540 | 1 | |
| Rawalpindi ... | Grazing by leases (acres) ... ... | .. | ... | 12.272 | 814 | .. | ... | ... | ... | 12.272 | 814 | |
| | " (No. of cattle) ... ... | ... | ... | 18,685 | 974 | ... | ... | 42.179 | 41,426 | 60.864 | 42.400 | |
| | Grass cutting by leases (acres) ... ... | ... | ... | 94,173 | 4,492 | ... | ... | ... | ... | 94,173 | 4,492 | |
| | " (loads) ... ... ... | ... | ... | 17,460 | 194 | ... | ... | ... | ... | 17,460 | 194 | |
| | " (maunds) ... .. ... | ... | .. | ... | ... | ... | ... | 1,58,566 | 5,126 | 1.58,566 | 5,126 | |
| | Aola leaves (loads) ... ... | ... | ... | 336 | 63 | ... | ... | ... | ... | 336 | 63 | |
| | Marwan branches (loads) ... ... | ... | ... | 79 | 5 | ... | ... | ... | ... | 79 | 5 | |
| | Sanatha (loads) ... ... | ... | ... | 247 | 23 | ... | ... | ... | ... | 247 | 23 | |
| | Grass and minor produce confiscated (loads) ... | ... | ... | 61 | 6 | ... | ... | ... | ... | 61 | 6 | |
| Chamba ... | Grass (maunds) ... ... ... | ... | ... | 13,960 | 592 | ... | ... | ... | ... | 13,960 | 592 | |
| Kangra ... | Bamboos (No.) .. ... ... | 6.14.550 | 11.542 | 4,489 | 55 | ... | ... | ... | ... | 6,19,039 | 11,597 | |
| | Grass cutting (acres) ... ... ... | ... | ... | 31,925 | 2,126 | ... | ... | ... | ... | 31,925 | 2,126 | |
| | Grazing (acres) ... ... ... | ... | ... | 1,895 | 101 | ... | ... | ... | ... | 1,895 | 101 | |
| | Other minor produce ... ... ... | ... | ... | ... | 48 | ... | ... | ... | ... | ... | 48 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JHELUM | Grazing by leases (acres) | ... | ... | ... | 82,366 | 3,852 | ... | ... | ... | ... | 82,366 | 3,852 |
| | " by settlement (cattle) | ... | ... | ... | ... | ... | 33 | 2 | 17,655 | 16,06 | 17,688 | 1,608 |
| | " by permits ( " ) | ... | ... | ... | 4,177 | 1,858 | 14 | 99 | ... | ... | 4,191 | 1,957 |
| | Grass cutting by leases (acres) | ... | ... | ... | 83,840 | 3,924 | ... | ... | ... | ... | 83,840 | 3,924 |
| | " by permits (No.) | ... | ... | ... | 21 | 21 | 11 | 132 | ... | ... | 32 | 153 |
| | " (loads) | ... | ... | ... | 285 | 388 | ... | ... | ... | ... | 285 | 388 |
| | Reeds and Nár (maunds) | ... | ... | ... | 2,333 | 173 | ... | ... | ... | ... | 2,333 | 173 |
| | Stone (cubic feet) | ... | ... | ... | 19,500 | 49 | 25,15,555 | 6,289 | ... | ... | 25,35,055 | 6,338 |
| | Other minor produce | ... | ... | ... | ... | 28 | ... | ... | ... | ... | ... | 28 |
| CHENAB | Grazing by leases (acres) | ... | ... | ... | 60,916 | 13,021 | ... | ... | ... | ... | 60,916 | 13,021 |
| | " by permits (cattle) | ... | ... | ... | 8,637 | 4,457 | ... | ... | ... | ... | 8,637 | 4,457 |
| | Grass cutting (acres) | ... | ... | ... | 7,214 | 603 | ... | ... | ... | ... | 7,214 | 603 |
| | " by permits (head loads) | ... | ... | ... | 6,139 | 304 | ... | ... | ... | ... | 6,139 | 304 |
| | " " (pony loads) | ... | ... | ... | 212 | 14 | ... | ... | ... | ... | 212 | 14 |
| | Kahi and dab grass (head loads) | ... | ... | ... | 79 | 10 | ... | ... | ... | ... | 79 | 10 |
| | Saltpetre by leases (acres) | ... | ... | ... | 14,747 | 28 | ... | ... | ... | ... | 14,747 | 28 |
| | Mallah leaves ( " ) | ... | ... | ... | 18,411 | 616 | ... | ... | ... | ... | 18,411 | 616 |
| | Stones (cubic feet) | ... | ... | ... | 600 | 6 | ... | ... | ... | ... | 600 | 6 |
| LAHORE | Grass by permits (maunds) | ... | ... | ... | 4,870 | 214 | ... | ... | ... | ... | 4,870 | 214 |
| | " cut and stacked (maunds) | ... | 563 | 173 | ... | ... | ... | ... | ... | ... | 563 | 173 |
| | " by leases (acres) | ... | ... | ... | 1,692 | 258 | ... | ... | ... | ... | 1,692 | 258 |
| | Grazing by permit (cattle) | ... | ... | ... | 10,862 | 6,335 | ... | ... | ... | ... | 10,862 | 6,335 |
| | " by leases (acres) | ... | ... | ... | 2,134 | 970 | ... | ... | ... | ... | 2,134 | 970 |
| | Munj, kana and sar by permits (maunds) | ... | ... | ... | 264 | 22 | ... | ... | ... | ... | 264 | 22 |
| | " " by leases (acres) | ... | ... | ... | 3,737 | 1,100 | ... | ... | ... | ... | 3,737 | 1,100 |
| | Kahi and pilchi by leases ( " ) | ... | ... | ... | 1,090 | 90 | ... | ... | ... | ... | 1,090 | 90 |
| MULTAN | Grass (maunds) | ... | ... | ... | 40 | 10 | ... | ... | ... | ... | 40 | 10 |
| | " (loads) | ... | ... | ... | 4,866 | 384 | ... | ... | ... | ... | 4,866 | 384 |
| | Grazing by permits (No. of cattle) | ... | ... | ... | 22,921 | 3,129 | ... | ... | ... | ... | 22,921 | 3,129 |
| | " by leases (acres) | ... | ... | ... | 3,758 | 100 | ... | ... | ... | ... | 3,758 | 100 |
| | Munj, kana (maunds) | ... | ... | ... | 82 | 152 | ... | ... | ... | ... | 82 | 152 |
| | Pilu fruits ( " ) | ... | ... | ... | 657 | 43 | ... | ... | ... | ... | 657 | 43 |
| | Karil fruits ( " ) | ... | ... | ... | 200 | 5 | ... | ... | ... | ... | 200 | 5 |
| | Other minor produce | ... | ... | ... | ... | 14 | ... | ... | ... | ... | ... | 14 |
| MONTGOMERY | Grazing (acres) | ... | ... | ... | 9,203 | 2,490 | ... | ... | ... | ... | 9,203 | 2,490 |
| | " (No. of cattle) | ... | ... | ... | 6,442 | 1,093 | ... | ... | ... | ... | 6,442 | 1,093 |
| | Grass (maunds) | ... | ... | ... | 31,871 | 3,984 | ... | ... | ... | ... | 31,871 | 3,984 |
| | " (loads) | ... | ... | ... | 712 | 873 | ... | ... | ... | ... | 712 | 873 |
| | Munj, kana (loads) | ... | ... | ... | 15,988 | 153 | ... | ... | ... | ... | 15,988 | 153 |
| | " (acres) | ... | ... | ... | 42,514 | 1,127 | ... | ... | ... | ... | 42,514 | 1,127 |
| | Máin (acres) | ... | ... | ... | 21,974 | 185 | ... | ... | ... | ... | 21,974 | 185 |
| | Other minor produce (acres) | ... | ... | ... | 16,625 | 159 | ... | ... | ... | ... | 16,625 | 159 |
| AMBALA | Grazing (No. of cattle) | ... | ... | ... | 81 | 26 | ... | ... | ... | ... | 81 | 26 |
| | Grass cutting by lease (acres) | ... | ... | ... | 271 | 770 | ... | ... | ... | ... | 271 | 770 |
| | Grass (maunds) | ... | ... | ... | 29 | 3 | ... | ... | ... | ... | 29 | 3 |
| | " (loads) | ... | ... | ... | 182 | 48 | ... | ... | ... | ... | 182 | 48 |
| | " (bundles) | ... | ... | 8,660 | 11 | ... | ... | ... | ... | ... | 8,660 | 11 |
| SIMLA HILL TRACTS | Grazing (No. of cattle) | ... | ... | ... | ... | ... | ... | ... | 1,992 | 747 | 1,992 | 747 |
| | Total from Reserved Forests | ... | 6,23,778 | 11,768 | 8,83,826 | 71,075 | 25,17,053 | 6,546 | 2,34,332 | 49,588 | 42,58,989 | 1,38,977 |

Head loads ... 94.
Cart " ... 88.

# Form No. 55.

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1890-91—(*continued.*)

| Division. | Description of Produce | Produce Removed or Utilized | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *By Government Agency.* | | *By Purchasers.* | | *By Free grants.* | | *By Right-holders.* | | *Total.* | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| | **PROTECTED FORESTS** | | | | | | | | | | | |
| Rawalpindi ... | Grazing by permits [No. of cattle] ... | . | . | 2,770 | 45 | . | ... | | . | 2,770 | 45 |
| | " by settlement[ " ] ... | | | ... | . | ... | .. | 45,272 | 87,014 | 45,272 | 87,014 |
| | Babar grass by permits [loads] ... | . | ... | 292 | 23 | ... | ... | ... | ... | 292 | 23 |
| | Sanatha [loads] .. ... | .. | ... | 15 | 1 | ... | ... | . | . | 15 | 1 |
| | Bamboos confiscated [No.] ... .. | . | ... | 19 | ... | ... | ... | .. | ... | 19 | ... |
| | Babar grass " [loads] . .. | . | .. | 5 | 3 | . | .. | ... | ... | 5 | 3 |
| Chenab ... | Grazing by leases [acres] ... ... | .. | ... | 2,19,644 | 37,290 | .. | .. | .. | .. | 2,19,644 | 37,290 |
| | " by permits (cattle] .. ... | | ... | 68 | 22 | ... | ... | .. | ... | 68 | 22 |
| | Kankar [cubic feet] ... ... ... | .. | | 26,416 | 132 | .. | ... | .. | ... | 26,416 | 132 |
| | Mallah leaves [acres] .. .. .. | | . | 8,265 | 61 | ... | ... | . | .. | 8,265 | 61 |
| | Saltpetre by lease [ " ] ... ... | . | . | 26,613 | 60 | ... | ... | | .. | 26,613 | 60 |
| | Total from Protected Forests ... | .. | .. | 2,84,107 | 37,637 | . | . | 45,272 | 87,014 | 3,29,379 | 1,24,651 |
| | **UNCLASSED STATE FORESTS** | | | | | | | | | | | |
| Rawalpindi ... | Grass cutting by lease [acres] ... ... | ... | ... | 580 | 608 | .. | . | ... | ... | 580 | 608 |
| | Minor produce confiscated [acres] . ... | ... | ... | 4 | 1 | ... | ... | | ... | 4 | 1 |
| | Sanatha by settlement [loads] ... ... | ... | ... | ... | ... | . | ... | 287 | 18 | 287 | 18 |
| Kangra ... | Bamboos [No.] ... ... ... | 40,300 | 1,033 | 2,500 | 10 | 600 | 24 | . | | 43,400 | 1,067 |
| | Grass cutting [acres] ... ... ... | .. | . | 414 | 176 | ... | .. | ... | ... | 414 | 176 |
| | Grazing [acres] ... ... ... | ... | .. | 91,463 | 2,835 | ... | ... | ... | ... | 91,463 | 2,835 |
| | Other minor produce ... ... ... | ... | ... | ... | 6 | ... | ... | ... | ... | ... | 6 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kulu ... | Grass [maunds] ... ... ... | ... | ... | 94 | 3 | ... | ... | 26,50,000 | 26,500 | 26,50,094 | 26.503 |
| | „ [acres] .. ... ... | ... | ... | 86 | 11 | ... | ... | ... | ... | 86 | 11 |
| | Grazing [heads] cattle ,sheep, &c. ... | ... | ... | 4,848 | 101 | ... | ... | 2,96,000 | 4.625 | 3,00,848 | 4.726 |
| | Vegetable mould [maunds] ... | ... | ... | ... | ... | ... | ... | 12,07,575 | 24,000 | 12,07.575 | 24.000 |
| | Patis [*Aconite*] „ ... ... | ... | ... | ... | ... | ... | ... | 30 | 780 | 30 | 780 |
| | Karu [*Gentian*] „ ... ... | ... | ... | ... | ... | ... | ... | 400 | 2.400 | 400 | 2,400 |
| | Egilbir „ ... ... | ... | ... | ... | ... | ... | ... | 25 | 250 | 25 | 250 |
| | Dhup [*Juniper communis*] „ ... ... | ... | ... | ... | ... | ... | ... | 30 | 60 | 30 | 60 |
| | Binafsha [*Viola serpens*] „ ... ... | ... | ... | ... | ... | ... | ... | 40 | 1,600 | 40 | 1,600 |
| | Khut [*Aucklandia*] .. ... ... | ... | ... | ... | ... | ... | ... | 20 | 240 | 20 | 240 |
| | Nihani [*Valariana*] „ ... ... | .. | ... | ... | ... | ... | ... | 12 | 60 | 12 | 60 |
| | Tatakbar [Horse chestnut] „ ... ... | ... | ... | ... | ... | ... | ... | 15 | 37 | 15 | 37 |
| | *Bojpattra* [Birch bark] „ ... ... | ... | ... | ... | ... | ... | ... | 15 | 37 | 15 | 37 |
| | *Dandasa* [Walnut bark] „ ... ... | ... | ... | ... | ... | ... | ... | 40 | 400 | 40 | 400 |
| | Carraway seed [*sira*] „ ... ... | ... | ... | ... | ... | ... | ... | 20 | 400 | 20 | 400 |
| | „ [*singhu*] „ ... ... | ... | ... | ... | ... | ... | ... | 25 | 250 | 25 | 250 |
| | Walnuts [fruits] „ ... ... | ... | ... | ... | ... | ... | ... | 40 | 200 | 40 | 200 |
| | Sheroli nuts „ ... ... | ... | ... | ... | ... | ... | ... | 6 | 15 | 6 | 15 |
| | Pomegranate seed „ ... ... | ... | .. | ... | ... | ... | ... | 20 | 40 | 20 | 40 |
| | Stone [cubic feet] „ ... ... | ... | ... | 23,300 | 58 | ... | ... | .. | ... | 23,300 | 58 |
| | Surkhi clay [cubic feet] „ ... ... | ... | ... | 324 | 1 | ... | ... | ... | ... | 324 | 1 |
| | Slates [No.] .. ... ... | ... | ... | 145 | 7 | ... | ... | ... | ... | 145 | 7 |
| Bashahr .. | Grass and other fodder [maunds] ... ... | ... | ... | ... | ... | ... | ... | 34,31,000 | 17.870 | 34,31.000 | 17.870 |
| | Branches, &c., for manure „ ... .. | ... | ... | ... | ... | ... | ... | 6,00.000 | 6,250 | 6,00,000 | 6.250 |
| | Other minor produce „ ... ... | ... | ... | ... | ... | ... | ... | 500 | 2.500 | 500 | 2.500 |
| Jhelum ... | Grazing by leases [acres] ... ... | ... | ... | 1,32.942 | 4,027 | ... | ... | .. | ... | 1.32.942 | 4.027 |
| | „ by settlement [cattle] ... ... | ... | ... | ... | ... | 122 | 14 | 30.266 | 1.994 | 30.388 | 2,008 |
| | Grass cutting by settlement [men] ... | ... | ... | ... | ... | 3 | 2 | ... | ... | 3 | 2 |
| | Stone [cubic feet] . ... ... | ... | ... | 4.650 | 12 | ... | ... | . | ... | 4,650 | 12 |
| | Other minor produce ... ... ... | ... | ... | ... | 23 | ... | ... | ... | ... | ... | 23 |
| Chenab ... | Grazing by leases [acres] ... ... | ... | ... | 1.08,675 | 26.422 | ... | ... | ... | ... | 1.08.675 | 26.422 |
| | „ permits [cattle] ... .. | ... | ... | 10,603 | 5.060 | ... | ... | ... | ... | 10,603 | 5,060 |
| | Grass cutting [acres] ... ... ... | ... | ... | 7,144 | 543 | ... | ... | .. | ... | 7,144 | 543 |
| | „ by permits [head loads] ... ... | ... | ... | 9,196 | 308 | ... | ... | ... | ... | 9.196 | 308 |
| | „ „ [pony „ ] ... ... | ... | ... | 240 | 16 | ... | ... | ... | ... | 240 | 16 |
| | „ „ [cart „ ] ... ... | ... | ... | 27 | 40 | ... | ... | ... | ... | 27 | 40 |
| | „ „ [donkey „ ] ... ... | ... | ... | 694 | 47 | ... | ... | ... | ... | 694 | 47 |
| | Saltpetre by lease [acres] ... ... | ... | ... | 25,237 | 24 | ... | ... | ... | ... | 25,237 | 24 |
| Lahore ... | Grazing [acres] .. ... ... | ... | ... | ... | ... | 982 | 215 | ... | ... | 982 | 215 |
| | „ by lease [acres] ... ... | ... | ... | 1,55.420 | 21.469 | ... | ... | ... | ... | 1.55.420 | 21,469 |
| | „ by permits [cattle] ... ... | ... | ... | 15.941 | 8.836 | ... | ... | ... | ... | 15.941 | 8.836 |
| | Grass by permits [maunds] ... ... | ... | ... | 990 | 44 | ... | ... | ... | ... | 990 | 44 |
| | „ by lease [acres] ... ... | ... | ... | 5,100 | 585 | ... | ... | ... | ... | 5.100 | 585 |
| | Munj kana by lease [acres] ... ... | ... | ... | 10,356 | 607 | ... | ... | ... | ... | 10.356 | 607 |
| | Malla Patra by lease [acres] ... ... | ... | ... | 5.114 | 100 | ... | ... | ... | ... | 5,114 | 100 |
| | Sarkana by permits [maunds] ... ... | ... | ... | 903 | 40 | ... | ... | ... | ... | 903 | 40 |
| | Lána by lease [acres] ... ... ... | ... | ... | 6,082 | 50 | ... | ... | ... | ... | 6.082 | 50 |
| | Kikar bark [maunds] ... ... ... | 155 | 103 | ... | ... | ... | ... | ... | ... | 155 | 103 |
| | Bricks, stacked [cubic feet] ... ... | ... | ... | 352 | 9 | ... | ... | ... | ... | 352 | 9 |

# Form No. 55.

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1890-91—(*concluded*).

| Division. | Description of Produce. | Produce Removed or Utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *By Government Agency.* | | *By Purchasers.* | | *By Free grants.* | | *By Right-holders.* | | *Total.* | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| Multan ... | Grass [maunds] ... ... ... | 344 | 120 | . | .. | ... | ... | ... | ... | 344 | 120 | |
| | " [loads] ... ... ... | .. | ... | 64 | 4 | ... | ... | .. | ... | 64 | 4 | |
| | Grazing by permits [No. of cattle]... ... | ... | ... | 6.740 | 1.766 | ... | ... | ... | ... | 6.740 | 1,766 | |
| | " by lease [acres] ... ... | ... | ... | 82.366 | 5.630 | ... | ... | ... | ... | 82.366 | 5.630 | |
| | Munj, kana [maunds] ... ... ... | ... | ... | 628 | 372 | ... | ... | ... | ... | 628 | 372 | |
| | Pilu fruits " ... .. ... | ... | .. | 45 | 5 | ... | ... | ... | ... | 45 | 5 | |
| | Date fruits " ... ... ... | ... | ... | 3 | 5 | ... | ... | ... | .. | 3 | 5 | |
| | Other minor produce ... ... ... | ... | ... | ... | 36 | ... | ... | ... | ... | .. | 36 | |
| Montgomery ... | Grazing [acres] ... ... ... | ... | ... | 4.85.395 | 39.143 | ... | ... | ... | ... | 4.85,395 | 39.143 | |
| | Grass [maunds] ... ... ... | ... | ... | 4 | 1 | ... | ... | ... | ... | 4 | 1 | |
| | Kankar " ... ... ... | ... | ... | 5,500 | 27 | ... | ... | ... | ... | 5.500 | 27 | |
| | Munj, kana [acres] ... ... ... | ... | ... | 47,894 | 158 | ... | ... | ... | ... | 47.894 | 158 | |
| | Máin " ... ... ... | ... | ... | 4.85,395 | 746 | ... | ... | ... | ... | 4.85.395 | 746 | |
| | Other minor produce ... ... ... | ... | ... | ... | 110 | .. | ... | ... | ... | ... | 110 | |
| Ambala ... | Grazing [No. of cattle]... .. ... | ... | ... | 82 | 78 | ... | ... | ... | ... | 82 | 78 | |
| | Grass cutting by lease [acres] ... ... | ... | ... | 485 | 821 | ... | ... | ... | ... | 485 | 821 | |
| | " by permits [No. of permits] ... | ... | ... | 117 | 172 | ... | ... | ... | ... | 117 | 172 | |
| Simla Hill Tracts | Grass [maunds] ... ... ... | 59 | 37 | 394 | 64 | ... | ... | ... | ... | 453 | 101 | |
| | Total from Unclassed State Forests ... | 40.858 | 1,293 | 17,38.536 | 1.21.217 | 1,707 | 255 | 82,16.366 | 90.526 | 99,97.467 | 2,13.291 | |
| | **ABSTRACT FOR RESERVED FORESTS.** | | | | | | | | | | | |
| | Grazing ... ... ... ... | ... | ... | ... | 40.918 | ... | 101 | ... | 44,136 | ... | 85.155 | |
| | Grass ... ... ... ... | ... | 184 | ... | 25.868 | ... | 156 | ... | 5.452 | ... | 31.660 | |
| | Bamboos ... ... ... ... | ... | 11,542 | ... | 55 | ... | ... | ... | ... | ... | 11.597 | |
| | Other minor produce ... ... ... | ... | 42 | ... | 4.234 | ... | 6.289 | .. | ... | ... | 10,565 | |
| | Total ... | ... | 11,768 | ... | 71,075 | ... | 6,546 | ... | 49.588 | ... | 1,38,977 | |

## ABSTRACT FOR PROTECTED FORESTS.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Grazing ... ... ... ... | ... | ... | ... | 37,357 | ... | ... | ... | 87,014 | ... | 1,24,371 |
| Grass ... ... ... ... | ... | ... | ... | 26 | ... | ... | ... | ... | ... | 26 |
| Other minor produce ... ... ... | ... | ... | ... | 254 | ... | ... | ... | ... | ... | 254 |
| Total ... | ... | ... | ... | 37,637 | ... | ... | ... | 87,014 | ... | 1,24,651 |

## ABSTRACT FOR UNCLASSED STATE FORESTS.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Grazing ... ... ... ... | .. | ... | ... | 1.15,367 | ... | 229 | ... | 6,619 | ... | 1,22,215 |
| Grass ... ... ... ... | ... | 157 | ... | 3,443 | ... | 2 | ... | 44,370 | ... | 47,972 |
| Bamboos ... ... ... ... | ... | 1.033 | ... | 10 | ... | 24 | ... | ... | ... | 1,067 |
| Other minor produce ... ... ... | ... | 103 | ... | 2,397 | ... | ... | ... | 39,537 | ... | 42.037 |
| Total ... | ... | 1,293 | ... | 1,21,217 | ... | 255 | ... | 90,526 | ... | 2,13,291 |
| GRAND TOTAL ... | ... | 13,061 | ... | 2,29,929 | ... | 6,801 | ... | 2,27,128 | ... | 4,76,919 |
| Total for 1889-90 ... | ... | 16.759 | ... | 2,08.396 | ... | 2,174 | ... | 2,19,131 | ... | 4,46,460 |

*Add*--

| | | | Rs. | Rs. |
|---|---|---|---|---|
| Hazara | Division.— | Outstanding of former years ... | 100 | |
| Do. | do. | Value of last year's produce ... | 68 | |
| Bashahr | do. | Do. do. ... | 10 | |
| Jhelum | do. | Outstanding of former years ... | 38 | |
| Chenab | do. | Do. do. ... | 650 | |
| Lahore | do. | Do. do. ... | 875 | |
| Do. | do. | Value of last year's produce ... | 2,243 | |
| Do. | do. | Amount received in advance for 1891-92 .. | 295 | |
| Multan | do. | Outstanding of former years ... | 192 | |
| Montgomery | do. | do. do. ... | 513 | |
| | | | | 4,984 |

*Deduct*—

| | | | Rs. | | Rs. |
|---|---|---|---|---|---|
| | | | | | 4.76.919 |
| Hazara | Division.— | Outstanding of 1890-91 ... | 35 | | |
| Do. | do. | Value of produce unsold ... | 7 | | |
| Do. | do. | Do. of do. written off ... | 5 | | |
| Jhelum | do. | Outstanding for 1890 91 ... | 37 | | |
| Chenab | do. | Do. do. ... | 6,450 | | |
| Lahore | do. | Do. do. ... | 763 | | |
| Montgomery | do. | Do. do. ... | 15,927 | | |
| Ambala | do. | Value of produce used by Department, | 11 | | |
| Simla Hill Tracts | | Value of produce unsold ... | 37 | | |
| | | Total under "Free Grants" and "Right-holders" ... | 2.33,929 | | |
| | | | | 2.57.201 | |
| | | Net deduction ... | | ... | 2,52,217 |
| | | Total Receipts under I *c*, I *e*, II *c*, II *d*, II *e*, and Part III (Rs. 11) ... | | | 2,24,702 |

## Form No. 56.

### ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| **TIMBER.** | | | | |
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Hazara Division.* | | | | |
| Deodar logs ... | 295 | 11,562 | | |
| Deodar sleepers ... | 18 | 60 | | |
| Pine and other logs | 2,251 | 45,487 | | |
| Deodar scantlings... | 118 | 229 | | |
| Pine and other scantlings ... | 5,160 | 7,167 | | |
| Miscellaneous pieces | 12 | 12 | | |
| | | | 7,854 | 64,517 |
| *Chamba Division.* | | | | |
| Deodar logs ... | 2,459 | 92,544 | | |
| Pine and other logs | 31 | 655 | | |
| Deodar sleepers and scantlings ... | 31,975 | 1,01,198 | | |
| Pine scantlings ... | 329 | 442 | | |
| Pine poles ... | 11 | 11 | | |
| | | | 34,805 | 1,94,850 |
| *Kangra Division.* | | | | |
| Deodar logs ... | 801 | 20,367 | | |
| Pine and other logs | 211 | 3,767 | | |
| Box-wood logs ... | 27 | 17 | | |
| B. G. sleepers ... | 3,184 | 13,089 | | |
| N. G. " ... | 1,240 | 2,306 | | |
| Miscellaneous scantlings ... | 79 | 120 | | |
| Scraps . | 280 | 300 | | |
| | | | 5,822 | 40,866 |
| *Kulu Division.* | | | | |
| B. G. sleepers ... | 3,124 | 10,840 | | |
| N. G. " ... | 455 | 851 | | |
| Deodar trees ... | 20 | 2,060 | | |
| Deodar scantlings... | 650 | 391 | | |
| Scraps ... | 275 | 83 | | |
| | | | 4,464 | 14,225 |
| *Bashahr Division.* | | | | |
| Deodar logs ... | 4,154 | 98,982 | | |
| Pine and other logs | 73 | 2,662 | | |
| B. G. sleepers ... | 5,366 | 18,621 | | |
| N. G. " .. | 819 | 1,089 | | |
| Box-wood logs ... | 9,045 | 5,691 | | |
| | | | 19,457 | 1,27,045 |
| *Jhelum Division.* | | | | |
| Deodar logs ... | 2,058 | 72,528 | | |
| B. G. sleepers .. | 2,869 | 9,941 | | |
| Miscellaneous pieces | 2 | 5 | | |
| | | | 4,929 | 82,474 |
| *Chenab Division.* | | | | |
| Deodar logs ... | 123 | 1,648 | | |
| Pine and other logs | 6 | 191 | | |
| B. G. sleepers ... | 462 | 1,574 | | |
| Miscellaneous pieces | 190 | 678 | | |
| | | | 781 | 4,091 |
| *Carried over* ... | ... | ... | 78,112 | 5,28,068 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity | Total of each head. Cubic feet. |
|---|---|---|---|---|
| **DISPOSALS** | | | | |
| (1).—TRUE DISPOSALS. | | | | |
| Removed by Purchasers from depots. | | | | |
| Deodar logs ... | 10,755 | 2,63,631 | | |
| Pine and other logs | 7,478 | 62,543 | | |
| B. G. sleepers ... | 5,257 | 20,972 | | |
| N. G. " ... | 1,618 | 2,800 | | |
| Deodar sleepers ... | 57 | 172 | | |
| Pine " .. | 7 | 21 | | |
| Deodar scantlings | 719 | 457 | | |
| Deodar sleepers and scantlings ... | 24,018 | 64,074 | | |
| Pine and other scantlings ... | 9,381 | 12,274 | | |
| Confiscated scantlings ... | 898 | 2,560 | | |
| Deodar beam ... | 1 | 3 | | |
| Pine and other trees | 3 | 120 | | |
| Box-wood logs ... | 97 | 61 | | |
| Pencil cedar ... | 5 | 98 | | |
| Pine poles ... | 31 | 50 | | |
| Miscellaneous pieces | 3,540 | 7,084 | | |
| Drift and waif wood ... | 359 | 581 | | |
| | | | 64,224 | 4,37,501 |
| Sold Locally. | | | | |
| Waif wood ... | 44 | 233 | | |
| Drift and waif ... | 21 | 103 | | |
| | | | 65 | 336 |
| Used by Department. | | | | |
| Deodar logs ... | 40 | 1,032 | | |
| Pine and other logs | 165 | 495 | | |
| Deodar sleeper ... | 1 | 3 | | |
| Deodar scantlings | 13 | 26 | | |
| Deodar sleepers and scantlings ... | 37 | 1,580 | | |
| Pine and other scantlings ... | 313 | 425 | | |
| Miscellaneous pieces | 72 | 175 | | |
| | | | 641 | 3,736 |
| Made over to Contractors. | | | | |
| Pine and other logs ... | 5 | 31 | | |
| Miscellaneous pieces | 38 | 167 | | |
| | | | 43 | 198 |
| Lost by Re-measurement and struck off for other causes, &c. | | | | |
| Deodar logs ... | .. | 3,253 | | |
| Pine and other logs ... | ... | 691 | | |
| B. G. sleepers ... | ... | 5,298 | | |
| N. G. " ... | ... | 315 | | |
| Deodar sleepers ... | 15 | 55 | | |
| Deodar sleepers and scantlings ... | ... | 2,31,111 | | |
| Deodar scantlings | ... | 2 | | |
| Pine and other scantlings ... | 219 | 1,068 | | |
| Miscellaneous pieces | 27 | 17 | | |
| | | | 261 | 2,41,810 |
| *Carried over* ... | ... | ... | 65,234 | 6,83,581 |

# Form No. 56.

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.—(continued).

| Particulars | No. or quantity. | Cubic feet | Total of each head. No. or quantity | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 78,112 | 5,28,068 |
| *Lahore Division.* | | | | |
| Logs ... | 3,876 | 35,776 | 3,876 | 35,776 |
| *Ambala Division* | | | | |
| Deodar logs ... | 6,477 | 1,74,824 | | |
| Pine and other logs | 820 | 10,396 | | |
| B. G. sleepers .. | 11,802 | 40,953 | | |
| N. G. " ... | 315 | 419 | | |
| Box-wood logs ... | 24 | 17 | | |
| Confiscated scantlings ... | 683 | 1,975 | | |
| Miscellaneous pieces | 2,975 | 7,741 | 23,096 | 2,36,325 |
| **TOTAL BALANCE** ... | | | 1,05,084 | 8,00,169 |
| **RECEIPTS.** | | | | |
| (1) TRUE RECEIPTS. | | | | |
| RECEIVED FROM FORESTS DURING THE YEAR. | | | | |
| Deodar logs .. | 20,498 | 7,29,085 | | |
| Pine and other logs, | 4,251 | 49,610 | | |
| B. G. sleepers ... | 13,344 | 51,601 | | |
| N G. " ... | 400 | 1,063 | | |
| Deodar scantlings, | 970 | 993 | | |
| Deodar sleepers and scantlings ... | 5,976 | 31,090 | | |
| Pine and other scantlings ... | 9,854 | 12,555 | | |
| Pine and other trees .. | 4 | 131 | | |
| Pine poles ... | 20 | 22 | | |
| Miscellaneous pieces | 278 | 652 | 55,595 | 8,76,802 |
| OMITTED IN PREVIOUS RETURNS | | | | |
| B. G. sleepers ... | 279 | 837 | | |
| N. G. " ... | 111 | 139 | | |
| Miscellaneous pieces | 33 | 48 | 423 | 1,024 |
| RECEIVED AND SOLD LOCALLY. | | | | |
| Waif wood .. | 44 | 233 | | |
| Drift and waif ... | 21 | 103 | 65 | 336 |
| RECEIVED IN FOREST CASES. | | | | |
| Deodar sleeper ... | 1 | 7 | | |
| Miscellaneous pieces | 36 | 35 | 37 | 42 |
| GAINED BY RE-MEASUREMENT. | | | | |
| Deodar logs ... | ... | 1,769 | | |
| Deoder scantlings | ... | 727 | | |
| Pine and other scantlings .. | ... | 60 | | |
| Pine poles ... | ... | 17 | | |
| Miscellaneous pieces | ... | 4 | ... | 2,577 |
| *Carried over* ... | ... | ... | 56,120 | 8,80,781 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No or quantity. | Total of each head. Cubic. feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 65,234 | 6,83,581 |
| DESPATCHED FROM FORESTS AND FROM DEPOTS BUT NOT YET RECEIVED. | | | | |
| Deodar logs ... | 846 | 57,085 | | |
| B. G. sleepers ... | 2,309 | 7,993 | | |
| N. G " .. | 660 | 816 | | |
| Deodar sleepers ... | 3 | 5 | | |
| Deodar sleepers and scantlings ... | 36,177 | 1,39,829 | 39,995 | 2,05,728 |
| TOTAL TRUE DISPOSALS ... | . | ... | 1,05,229 | 8,89,309 |
| (2). CROSS DISPOSALS. | | | | |
| TRANSFERRED TO OTHER CLASSES. | | | | |
| Deodar logs ... | 11,263 | 4,14,042 | | |
| Pine and other logs | 475 | 4,694 | | |
| Deodar sleepers... | 6 | 19 | | |
| Sleeper ... | 1 | 3 | | |
| Miscellaneous pieces | 43 | 259 | 11,788 | (b) 4,19 017 |
| TRANSFERRED TO OTHER DEPOTS. | | | | |
| Deodar logs ... | 14,261 | 4,03,669 | | |
| Pine and other logs | *2,113 | 32,923 | | |
| B. G. sleepers ... | 26,983 | 90,592 | | |
| N. G. " ... | 2,692 | 4,835 | | |
| Deodar scantlings | 309 | 347 | | |
| Deodar sleepers and scantlings ... | 58,238 | 1,85,747 | | |
| Pine and other scantlings .. | 9,884 | 12,438 | | |
| Pencil cedar ... | 2 | 52 | | |
| Pine poles ... | 20 | 22 | | |
| Miscellaneous pieces | 162 | 378 | 1,14,664 | 7,31,003 |
| TOTAL CROSS DISPOSALS ... | | | 1,26,452 | 11,50,020 |
| **TOTAL DISPOSALS** ... | | | 2,31,681 | 20,39,329 |
| | | | ... | ... |

# Form No. 56.

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNNENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.—(continued).

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 56,120 | 8,80,781 |
| **Drift timber transferred to Government account.** | | | | |
| Deodar logs .. | 479 | 5,770 | | |
| Pine and other logs ... | 423 | 3,530 | | |
| B. G. sleepers ... | 66 | 201 | | |
| Deodar " ... | 101 | 321 | | |
| Pine " ... | 7 | 21 | | |
| Deodar scantlings | 38 | 19 | | |
| Deodar sleepers and scantlings ... | 38 | 105 | | |
| Pine and other scantlings ... | 13 | 151 | | |
| Deodar beam ... | 1 | 3 | | |
| Drift and waif wood ... | 359 | 581 | | |
| Confiscated scantlings ... | 396 | 941 | | |
| Confiscated pieces | 6 | 6 | | |
| Miscellaneous pieces ... | 1,120 | 3,741 | | |
| | | | 3,047 | 15,390 |
| **Unmarked timber received during the year.** | | | | |
| Deodar logs ... | 498 | 12,206 | | |
| Pine logs ... | 427 | 8,072 | | |
| Miscellaneous pieces ... | 379 | 211 | | |
| | | | 1,304 | 20,489 |
| **Received from previous launchings.** | | | | |
| Deodar logs ... | 2,207 | 18,802 | | |
| Pine and other logs ... | 1,197 | 12,113 | | |
| B. G. sleepers ... | 1,255 | 1,149 | | |
| N. G. " ... | 40 | 75 | | |
| Deodar " ... | 7 | 24 | | |
| Pencil cedar ... | 5 | 98 | | |
| Miscellaneous pieces ... | 3,608 | 10,730 | | |
| | | | 8,319 | 42,991 |
| TOTAL TRUE RECEIPTS ... | ... | ... | 68,790 | 9,59,651 |
| (2) CROSS RECEIPTS. | | | | |
| **Received by transfer from other classes.** | | | | |
| Deodar logs ... | 198 | 4,697 | | |
| Pine and other logs | 1,465 | 4,723 | | |
| B. G. sleepers ... | 19 | 209 | | |
| N. G. " ... | 501 | 2,113 | | |
| Deodar " ... | 6 | 19 | | |
| Pine " ... | 1 | 3 | | |
| Deodar sleepers and scantlings ... | 54,819 | 4,07,189 | | |
| Pine scantlings ... | 1,406 | 2,440 | | |
| Miscellaneous pieces | 36 | 157 | | |
| | | | 58,451 | (a) 4,21,550 |
| *Carried over* ... | ... | ... | 58,451 | 4,21,550 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| **BALANCE AT CLOSE OF THE YEAR.** | | | | |
| *Hazara Division.* | | | | |
| Deodar logs ... | 1,487 | 77,048 | | |
| Pine and other logs ... | 2,498 | 56,092 | | |
| Deodar sleepers ... | 3 | 10 | | |
| Deodar scantlings | 163 | 240 | | |
| Pine and other scantlings ... | 6,928 | 9,167 | | |
| | | | 11,079 | 1,42,557 |
| *Chamba Division.* | | | | |
| Deodar logs ... | 618 | 28,718 | | |
| Deodar sleepers and scantlings ... | 32,576 | 1,03,715 | | |
| Pine and other trees ... | 1 | 11 | | |
| | | | 33,195 | 1,32,444 |
| *Kangra Division.* | | | | |
| Deodar logs ... | 1,032 | 41,598 | | |
| Pine and other logs ... | 38 | 910 | | |
| B. G. sleepers ... | 6,770 | 20,310 | | |
| N. G. " ... | 813 | 1,626 | | |
| Miscellaneous pieces ... | 120 | 170 | | |
| | | | 8,773 | 64,614 |
| *Kulu Division.* | | | | |
| Deodar trees ... | 20 | 2,060 | 20 | 2,060 |
| *Bashahr Division.* | | | | |
| Deodar logs ... | 751 | 20,053 | | |
| Pine and other logs ... | 12 | 376 | | |
| B. G sleepers .. | 2,704 | 9,383 | | |
| Box-wood logs ... | 8,975 | 5,647 | | |
| | | | 12,442 | 35,459 |
| *Jhelum Division* | | | | |
| Deodar logs ... | 2,773 | 89,287 | | |
| Pine and other logs | 385 | 7,394 | | |
| Sleepers ... | 2,917 | 10,108 | | |
| Miscellaneous pieces | 19 | 41 | | |
| | | | 6,094 | 1,06,830 |
| *Chenab Division.* | | | | |
| Deodar logs ... | 196 | 1,785 | | |
| Pine and other logs | 208 | 1,723 | | |
| B. G sleepers ... | 5 | 15 | | |
| Pine " ... | 1 | 3 | | |
| Miscellaneous pieces | 869 | 3,294 | | |
| | | | 1,279 | 6,820 |
| *Lahore Division.* | | | | |
| Logs ... | 1,967 | 15,847 | | |
| | | | 1,967 | 15,847 |
| *Carried over* ... | ... | ... | 74,849 | 5,06,631 |

# Form No. 56.

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.—(continued.)

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* .. | ... | ... | 58,451 | 4,21,550 |
| **Received by transfer from other Depots.** | | | | |
| Deodar logs ... | 14,261 | 4,03,669 | | |
| Pine and other logs | 2,113 | 32,923 | | |
| B. G. sleepers ... | 26,983 | 90,592 | | |
| N. G. " ... | 2,692 | 4,895 | | |
| Deodar scantlings | 309 | 347 | | |
| Deodar sleepers and scantlings ... | 58,238 | 1,85,747 | | |
| Pine and other scantlings ... | 9,884 | 12,438 | | |
| Pencil cedar ... | 2 | 52 | | |
| Pine poles ... | 20 | 22 | | |
| Miscellaneous pieces | 162 | 378 | | |
| | | | 1,14,664 | 7,31,003 |
| TOTAL CROSS RECEIPTS ... | ... | ... | 1,73,115 | 11,52,553 |
| **TOTAL RECEIPTS** | | ... | 2,41,905 | 21,12,204 |
| **GRAND TOTAL** | ... | ... | 3,46,989 | 29,12,373 |
| Total for 1889-90 ... | ... | ... | 3,23,399 | 23,62,211 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | .. | 74,849 | 5,06,631 |
| *Ambala Division.* | | | | |
| Deodar logs ... | 10,486 | 2,48,842 | | |
| Pine and other logs | 1,800 | 26,186 | | |
| B. G. sleepers ... | 21,855 | 75,857 | | |
| N. G. " ... | 790 | 1,051 | | |
| Boxwood logs ... | 24 | 17 | | |
| Confiscated scantlings ... | 181 | 350 | | |
| Miscellaneous pieces | 4,442 | 13,196 | | |
| | | | 39,578 | 3,65,505 |
| *Simla Hill Tracts.* | | | | |
| Deodar scantlings | 881 | 908 | 881 | 908 |
| **TOTAL BALANCE** | | ... | 1,15,308 | 8,73,044 |
| **GRAND TOTAL** | ... | ... | 3,46,989 | 29,12,373 |
| Total for 1889-90 .. | ... | ... | 3,23,399 | 23,62,211 |

## ABSTRACT.

| | | | | |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR** | ... | ... | 1,05,084 | 8,00,169 |
| **TOTAL BALANCE** | | ... | 1,05,084 | 8,00,169 |
| **RECEIPTS** | | | | |
| (1).—TRUE RECEIPTS. | | | | |
| Received from forests during the year | ... | ... | 55,595 | 8,76,802 |
| Omitted in previous returns ... | ... | ... | 423 | 1,024 |
| Received and sold locally ... | ... | ... | 65 | 336 |
| Received in forest cases ... | ... | ... | 37 | 42 |
| Gained by Re-measurement ... | ... | ... | ... | 2,577 |
| Drift Timber transferred to Government Account ... | ... | ... | 3,047 | 15,390 |
| Unmarked timber received during the year ... | ... | ... | 1,304 | 20,489 |
| Received from previous launchings | ... | ... | 8,319 | 42,991 |
| TOTAL TRUE RECEIPTS ... | ... | ... | 68,790 | 9,59,651 |

| | | | | |
|---|---|---|---|---|
| **DISPOSALS.** | | | | |
| (1)—TRUE DISPOSALS. | | | | |
| Removed by purchasers from depôts | ... | ... | 64,224 | 4,37,501 |
| Sold locally ... | ... | ... | 65 | 336 |
| Used by Department .. | ... | ... | 641 | 3,736 |
| Made over to contractors ... | ... | ... | 43 | 198 |
| Lost by re-measurement and struck off for other causes, &c. ... | ... | ... | 261 | 2,41,819 |
| Despatched from forests and from depôts, but not yet received ... | ... | ... | 39,995 | 2,05,728 |
| TOTAL TRUE DISPOSALS ... | ... | ... | 1,05,229 | 8,89,309 |

## Form No. 56.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.—(continued).

| Particulars | No. or quantity. | Cubic feet | Total of each head | | Particulars | No. or quantity. | Cubic feet | Total of each head. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. or quantity | Cubic feet | | | | No or quantity | Cubic feet. |
| (2) CROSS RECEIPTS. | | | | | (2) CROSS DISPOSALS | | | | |
| Received by transfer from other classes ... | .. | ... | 58,451 | 4,21,550 | Transferred to other classes ... | ... | ... | 11,788 | 4,19.017 |
| Received by transfer from other depôts . | ... | ... | 1,14,664 | 7,31,003 | Transferred to other depôts ... | ... | ... | 1,14,664 | 7,31,003 |
| TOTAL CROSS RECEIPTS ... | ... | ... | 1,73,115 | 11,52,553 | TOTAL CROSS DISPOSALS ... | ... | .. | 1,26,452 | 11,50,020 |
| **TOTAL RECEIPTS.** | | ... | 2,41,905 | 21,12,204 | **TOTAL DISPOSALS.** | | ... | 2,31,681 | 20,39,329 |
| | | | | | **BALANCE AT CLOSE OF THE YEAR** | .. | ... | 1,15,308 | 8,73,044 |
| **GRAND TOTAL** | ... | ... | 3,46,989 | 29,12,373 | **GRAND TOTAL** | ... | ... | 3,46,989 | 29,12,373 |
| Total for 1889-90 | ... | ... | 3,23,399 | 23,62,211 | Total for 1889-90 | ... | ... | 3,23,399 | 23,62,211 |

*a* 3,977 cubic feet solid transferred from firewood.
*b*. 1,444 cubic feet transferred to firewood.

## Form No. 56.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91.—(continued)

### FIREWOOD AND CHARCOAL.

| Particulars. | No. or quantity | Cubic feet | Total of each head: No or quantity | Total of each head: Cubic feet. |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Hazara Division* | | | | |
| Firewood ... | ... | 15,999 | | |
| Charcoal ... | ... | 1,053 | | 17,052 |
| *Jhelum Division.* | | | | |
| Firewood ... | ... | 3,488 | ... | 3,488 |
| *Lahore Division.* | | | | |
| Firewood ... | ... | 6,49,580 | | 6 49 580 |
| *Multan Division.* | | | | |
| Firewood ... | .. | 2,83,574 | ... | 2 83,574 |
| *Montgomery Division* | | | | |
| Firewood ... | ... | 12,39,452 | .. | 12,39,452 |
| *Ambala Division* | | | | |
| Firewood .. | . | 3,614 | | |
| Do. ... | ... | *2,587 | | 6,201 |
| **TOTAL BALANCE** | | ... | ... | 21,99,347 |
| **RECEIPTS.** | | | | |
| (1).—TRUE RECEIPTS. | | | | |
| RECEIVED FROM FORESTS DURING THE YEAR. | | | | |
| Firewood ... | ... | 40,92,298 | | |
| Brushwood ... | ... | 60 | | |
| Charcoal ... | ... | 7,998 | | 41,00,356 |
| RECEIVED IN SALE AND OTHER DEPOTS. | | | | |
| Firewood ... | ... | 40,033 | .. | 40,033 |
| RECOVERED IN FOREST CASES. | | | | |
| Firewood ... | ... | 171 | ... | 171 |
| GAINED BY RE-MEASUREMENT. | | | | |
| Firewood ... | ... | 267 | .. | 267 |
| TOTAL TRUE RECEIPTS | ... | ... | ... | 41,40,827 |
| (2).—CROSS RECEIPTS. | | | | |
| RECEIVED BY TRANSFER FROM OTHER CLASSES. | | | | |
| Firewood ... | .. | 2 127 | | |
| Charcoal ... | ... | 616 | ... | (a) 2743 |
| *Carried over* ... | | | | 2,743 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head: No or quantity. | Total of each head: Cubic feet |
|---|---|---|---|---|
| **DISPOSALS.** | | | | |
| (1) TRUE DISPOSALS. | | | | |
| REMOVED BY PURCHASES FROM DEPOTS. | | | | |
| Firewood ... | . | 54,77,126 | | |
| Brushwood ... | ... | 60 | | |
| Charcoal .. | ... | 7,803 | | 54,84,989 |
| USED BY DEPARTMENT | | | | |
| Firewood .. | .. | 2,393 | | |
| Charcoal | ... | 35 | ... | 2,428 |
| LOST BY RE-MEASUREMENT, DRYAGE, &c | | | | |
| Firewood ... | ... | 4,228 | | |
| Charcoal ... | ... | 35 | ... | 4,263 |
| MADE OVER TO CONTRACTORS. | | | | |
| Firewood ... | ... | 8,425 | ... | 8,425 |
| TOTAL TRUE DISPOSALS ... | ... | ... | ... | 55,00,105 |
| (2).—CROSS DISPOSALS | | | | |
| TRANSFERRED TO OTHER CLASSES. | | | | |
| Firewood | ... | (b) 7,186 | .. | 7,186 |
| TRANSFERRED TO OTHER DEPOTS. | | | | |
| Firewood ... | ... | 6,43,469 | | |
| Brushwood ... | ... | 60 | | |
| Charcoal ... | ... | 6,697 | | 6,50,226 |
| TOTAL CROSS DISPOSALS ... | ... | ... | .. | 6,57,412 |
| **TOTAL DISPOSALS** | | | ... | 61,57,517 |

* 20,692 cubic feet stacked firewood have been reduced to cubic feet solid @ 8 cubic feet stacked=1 cubic foot solid.

(a). 2,743 cubic feet fuel have been received by transfer thus :—
2 043 cubic feet stacked=1,360 cubic feet solid received from timber
84 cubic solid received from timber.
616 cubic feet charcoal received by conversion of 1,162 cubic feet fuel.

(b) 7,186 cubic feet fuel are made up and transferred to other classes thus—
5,874 cubic feet stacked=3,827 cubic feet solid transferred to timber.
150 cubic feet solid transferred to timber.
1,162 cubic feet firewood is equivalant to 616 cubic feet charcoal into which it has been converted.

## Form No. 56.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY. DURING THE YEAR 1890-91—(continued).

| Particulars | No or quantity | Cubic feet | Total of each head: No. or quantity | Total of each head: Cubic feet. |
|---|---|---|---|---|
| *Brought forward* | .. | .. | . | 2,743 |
| RECEIVED BY TRANSFER FROM OTHER DEPOTS | | | | |
| Firewood .. | .. | 6,43,469 | | |
| Brushwood .. | .. | 60 | | |
| Charcoal | . | 6,697 | | |
| | | | .. | 6,50,226 |
| TOTAL CROSS RECEIPTS | . | ... | | 6,52,969 |
| **TOTAL RECEIPTS** | | | | 47,93,796 |
| **GRAND TOTAL** | . | . | | 69,93,143 |
| Total for 1889-90 | | | ... | 42 81,382 |

| Particulars | No or quantity | Cubic feet. | Total of each head: No or quantity | Total of each head: Cubic feet. |
|---|---|---|---|---|
| **BALANCE AT CLOSE OF THE YEAR** | | | | |
| *Hazara Division* | | | | |
| Firewood | | 6 476 | | |
| Charcoal | | 1,794 | | |
| | | | . | 8,270 |
| *Jhelum Division* | | | | |
| Firewood .. | . | 2,927 | | |
| | | | ... | 2,927 |
| *Lahore Division* | | | | |
| Firewood | | 7,07,642 | | |
| | | | ... | 7 07,642 |
| *Multan Division* | | | | |
| Firewood | | 1,13,402 | | |
| | | | | 1,13,402 |
| *Ambala Division* | | | | |
| Firewood | . | 3,385 | | |
| | | | | 3,385 |
| **TOTAL BALANCE** | | ... | . | 8,35,626 |
| **GRAND TOTAL** | | | ... | 69,93,143 |
| Total for 1889-90 | ... | . | . | 42,81,382 |

## BAMBOOS.

| | | | | |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Ambala Division* | | | | |
| Bamboos .. | 359 | .. | | |
| " pieces .. | 556 | .. | | |
| | | | 915 | |
| **TOTAL BALANCE** | | | 915 | .. |
| **RECEIPTS** | | | | |
| TRUE RECEIPTS | | | | |
| RECEIVED FROM FORESTS DURING THE YEAR | | | | |
| Bamboos .. | 6,54,850 | ... | 6,54,850 | .. |
| DRIFT BAMBOOS TRANSFERRED TO GOVT ACCOUNT | | | | |
| Confiscated bamboos . | 534 | . | | |
| Confiscated bamboo pieces . | 65 | ... | | |
| | | | 599 | .. |
| TOTAL TRUE RECEIPTS | ... | . | 6,55,449 | ... |
| **TOTAL RECEIPTS** | | ... | 6,55,449 | ... |
| **GRAND TOTAL** | ... | . | 6,56,364 | .. |
| Total for 1889 90 ... | ... | ... | 6,85,057 | .. |

| | | | | |
|---|---|---|---|---|
| **DISPOSALS.** | | | | |
| TRUE DISPOSALS | | | | |
| REMOVED BY PURCHASERS | | | | |
| Bamboos .. | 6,54,650 | ... | 6,54,650 | ... |
| USED BY DEPARTMENT | | | | |
| Bamboos | 200 | ... | 200 | . |
| TRANSFERRED TO FORM No 16 | | | | |
| Bamboos | 359 | ... | | |
| " pieces . | 556 | .. | 915 | ... |
| TOTAL TRUE DISPOSALS . | | . | 6,55,765 | ... |
| **TOTAL DISPOSALS** | | | 6,55,765 | ... |
| **BALANCE AT CLOSE OF THE YEAR** | | | | |
| *Ambala Division* | . | | | |
| Confiscated bamboos . | 534 | .. | | |
| Confiscated bamboo pieces . | 65 | ... | 599 | ... |
| **TOTAL BALANCE.** | | ... | 599 | ... |
| **GRAND TOTAL** | ... | .. | 6,56,364 | .. |
| Total for 1889-90 .. | ... | ... | 6,85,057 | ... |

# Form No. 56.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-91. —(concluded)-

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Hasara Division.* | | | | |
| Shingles ... ... | 1,31,060 | 852 | | |
| Dhajjies ... ... | 2,425 | 32 | | |
| Paser handles ... | 70 | 10 | | |
| Bed legs (No.) ... | 16 | ... | | |
| | | | 133,571 | 894 |
| Turpentine (mds). | 1 | ... | | |
| Kalbir roots ,, | 6 | ... | | |
| Grass ,, | 155 | ... | | |
| | | | 162 | ... |
| *Bashahr Division.* | | | | |
| Turpentine (mds). | 3 | ... | | |
| | | | 3 | ... |
| *Lahore Division.* | | | | |
| Grass (mds) | 2,573 | ... | | |
| | | | 2,573 | ... |
| *Multan Division.* | | | | |
| Grass (mds). | 1,540 | ... | | |
| | | | 1,540 | ... |
| **TOTAL BALANCE** | | ... | 1,37,849 | 894 |
| **RECEIPTS.** | | | | |
| (1). TRUE RECEIPTS. | | | | |
| RECEIVED FROM FORESTS DURING THE YEAR. | | | | |
| Shingles ... | 8 0 670 | 525 | 80,670 | 525 |
| Turpentine (mds). | 2 | ... | | |
| Kuth roots ,, | 3 | ... | | |
| Grass ,, | 909 | ... | | |
| Kikar bark ,, | 155 | ... | | |
| Kahi and reeds ,, | 3 | ... | | |
| Grass (bundles) | 8,660 | ... | | |
| | | | 9,732 | ... |
| RECEIVED IN FOREST CASES. | | | | |
| Shingles ... | 1,200 | 8 | | |
| | | | 1,200 | 8 |
| TOTAL TRUE RECEIPTS. | | | 91,602 | 533 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| **MISCELLANEOUS PRODUCE.** | | | | |
| **DISPOSALS.** | | | | |
| (1). TRUE DISPOSALS. | | | | |
| REMOVED BY PURCHASERS. | | | | |
| Shingles ... | 1,10 730 | 718 | | |
| Dhajjies ... | 2,405 | 30 | | |
| | | | 1,13,135 | 748 |
| Turpentine (mds). | 4 | ... | | |
| Kalbir roots ,, | 6 | ... | | |
| Kuth roots ,, | 2 | ... | | |
| Bed legs (No.) ... | 8 | ... | | |
| Kahi and reeds (mds.) | 3 | ... | | |
| Grass ,, | 3,395 | ... | | |
| Kikar bark ,, | 155 | ... | | |
| | | | 3,573 | ... |
| USED BY DEPARTMENT. | | | | |
| Grass (bundles). | 8,660 | ... | 8,660 | |
| Shingles ... | 10,200 | 66 | 10,200 | 66 |
| LOST BY DRYAGE AND STRUCK OFF FOR OTHER CAUSES. | | | | |
| Dhajjies ... | ... | 2 | | |
| Kuth roots (mds.) | 1 | | | |
| Paser handles ... | 70 | 10 | | |
| Grass (mds.) | 1,782 | ... | | |
| Turpentine ,, | 1 | ... | | |
| | | | 1,854 | 12 |
| TOTAL TRUE DISPOSALS. | ... | ... | 1,37,422 | 826 |
| (2) CROSS DISPOSALS ... | | | | |
| TRANSFERRED TO OTHER DEPOTS. | | | | |
| Shingles ... | 76,810 | 499 | | |
| Turpentine (mds) | 1 | ... | | |
| Kuth roots ,, | 5 | ... | | |
| TOTAL CROSS DISPOSALS. | | | 76,816 | 499 |
| **TOTAL DISPOSALS** | | ... | 2,14,238 | 1,325 |

## Form No. 56.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1890-98.—(concluded).

| Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity | Total of each head. Cubic feet. | Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| (2). CROSS RECEIPTS. | | | | | | | | | |
| Received by transfer from other Depots. | | | | | BALANCE AT CLOSE OF THE YEAR. | | | | |
| Shingles ... | 76,810 | 499 | | | *Hazara Division.* | | | | |
| | | | 76,810 | 499 | Shingles ... | 92,000 | 601 | | |
| Turpentine (mds). | 1 | ... | 1 | ... | Turpentine (mds). | 1 | ... | | |
| Kuth roots ,, | 5 | ... | 5 | ... | Kalbir roots (7 seers) | ... | ... | | |
| | | | | | Bed legs (No.) | 8 | ... | | |
| TOTAL CROSS RECEIPTS. | | | 76,816 | 499 | Dhajjies ... | 20 | ... | 92,029 | 601 |
| TOTAL RECEIPTS | | ... | 1,68,418 | 1,032 | TOTAL BALANCE | | ... | 92,029 | 601 |
| GRAND TOTAL | ... | ... | 3,06,267 | 1,926 | GRAND TOTAL | ... | ... | 3,06,267 | 1,926 |
| Total for 1889-90... | | | 3,25,597 | 2,161 | Total for 1889-90... | | ... | 3,25,597 | 2,161 |

# Form No. 57A.

## ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPOTS FOR THE YEAR 1890-91.

| Description of Timber and other produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in Value | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | No. | Cubic feet. | Value. | No. | Cubic feet. | Value. | In favor of the year. | Against the year. | |
| | | | Rs. | | | Rs. | Rs. | Rs. | |
| **TIMBER** | | | | | | | | | |
| Sale Depôts. | | | | | | | | | |
| Deodar (logs) ... | 9,939 | 2,90,904 | 1,61,618 | 15,092 | 4,09,859 | 2,18,424 | 56,806 | ... | |
| Pine " .. | 4,929 | 50,633 | 10,711 | 2,425 | 36,163 | 6,391 | ... | 4,320 | |
| Boxwood " .. | 9,096 | 5,725 | 13,710 | 8,999 | 5,664 | 13,538 | ... | 172 | |
| Deodar scantlings . | 3,189 | 2,499 | 2,499 | 5,115 | 8,355 | 7,551 | 5,052 | ... | |
| Pine scantlings and others | 2,252 | 3,084 | 1,991 | 960 | 1,584 | 1,051 | ... | 940 | |
| Deodar B. G. sleepers ... | 32,393 | 1,15,791 | 67,643 | 59,062 | 2,01,652 | 1,15,496 | 47,853 | ... | |
| N. G. " " ... | 1,555 | 2,725 | 1,536 | 1,603 | 2,677 | 1,406 | ... | 130 | |
| Pine " " ... | ... | ... | ... | 1 | 3 | 1 | 1 | ... | |
| Scraps and pieces .. | 2,841 | 9,123 | 1,908 | 4,565 | 15,774 | 3,468 | 1,560 | ... | |
| Shingles ... ... | 59,830 | 389 | 437 | 41,670 | 273 | 311 | ... | 126 | |
| Dhajjies ... ... | 2,425 | 32 | 17 | 20 | ... | ... | ... | 17 | |
| Pine Poles ... ... | 11 | 11 | 4 | ... | ... | ... | .. | 4 | |
| Total ... | 1,28,460 | 4,80,916 | 2,62,074 | 1,39,512 | 6,82,004 | 3,67,637 | 1,05,563 | ... | |
| Forest Depôts. | | | | | | | | | |
| Shingles .. ... | 71,230 | 463 | 299 | 50,330 | 328 | 201 | ... | 98 | |
| Deodar logs ... | 6,428 | 1,81,551 | 82,315 | 2,251 | 97,472 | 34,067 | .. | 48,248 | |
| Pine and other (logs) ... | 2,334 | 48,261 | 6,060 | 4,477 | 72,315 | 10,029 | 3,969 | ... | |
| Deodar scantlings .. | 1,087 | 1,259 | 942 | 80 | 80 | 60 | .. | 882 | |
| Pine and other scantlings | 3,328 | 4,657 | 1,927 | 6,627 | 8,237 | 3,755 | 1,828 | .. | |
| B. G. sleepers ... | 22,251 | 77,861 | 44,636* | 2,730 | 9,473 | 4,108 | ... | 40,528 | |
| N. G. " ... | 1,274 | 1,940 | 1,289 | 3 | 12 | 1 | ... | 1,288 | |
| Miscellaneous pieces ... | 2,157 | 2,085 | 139 | 1,297 | 1,653 | 3 | ... | 136 | |
| Deodar trees ... | 20 | 2,060 | 300 | 20 | 2,060 | 300 | ... | ... | |
| Chil " .. | ... | ... | ... | 1 | 11 | 3 | 3 | ... | |
| Total ... | 1,10,109 | 3,20,137 | 1,37,907 | 67,816 | 1,91,641 | 52,527 | ... | 85,380 | |
| Total Timber ... | 2,38,569 | 8,01,053 | 3,99,981 | 2,07,328 | 8,73,645 | 4,20,164 | 20,183 | ... | |
| **FIREWOOD, CHARCOAL, BAMBOOS, &c** | | | | | | | | | |
| Sale Depôts. | | | | | | | | | |
| Turpentine ... ... | 1 | ... | 8 | 1 | ... | 8 | ... | ... | |
| Firewood (cubic feet) ... | .. | 6,64,415 | 35,266 | ... | 1,19,134 | 6,110 | .. | 29,156 | |
| Bamboos ... ... | 915 | ... | 20 | 599 | ... | 16 | ... | 4 | |
| Charcoal (cubic feet) ... | ... | 390 | 37 | ... | ... | ... | ... | 37 | |
| Grass (maunds) ... | 1,893 | ... | 591 | ... | ... | .. | ... | 591 | |
| Miscellaneous (maunds)... | 22 | ... | 25 | ... | ... | ... | ... | 25 | |
| Total ... | 2,831 | 6,64,805 | 35,947 | 600 | 1,19,134 | 6,134 | ... | 29,813 | |
| Forest Depôts. | | | | | | | | | |
| Paser handles ... | 70 | 10 | 1 | ... | ... | ... | ... | 1 | |
| Firewood (cubic feet) ... | ... | 15,51,984 | 84,599 | ... | 7,14,698 | 41,500 | ... | 43,099 | |
| Charcoal " ... | ... | 663 | 39 | ... | 1,794 | 129 | 90 | ... | |
| Grass (maunds) ... | 2,375 | ... | 443 | ... | ... | ... | ... | 443 | |
| Turpentine (maunds) ... | 3 | ... | 10 | ... | ... | ... | ... | 10 | |
| Total ... | 2,448 | 15,52,657 | 85,092 | ... | 7,16,492 | 41,629 | ... | 43,463 | |
| Total Firewood ... | 5,279 | 22,17,462 | 1,21,039 | 600 | 8,35,626 | 47,763 | ... | 73,276 | |
| Grand Total ... | ... | .. | 5,21,020 | ... | ... | 4,67,927 | ... | 53,093 | |
| Total for 1889-90 ... | ... | ... | 3,35,348 | ... | ... | 5,90,214 | 2,54,866 | ... | |

* In last year's form 13,743 B. G. sleepers in Chamba were valued at Rs. 2 per cubic foot instead of at Rs 2 each, causing an excess value of Rs 69,194, by which amount the opening balance in this year's form is reduced.

# Form No. 58.

## SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS DURING 1890-91.

| BUDGET HEADS. | Direction. | | | Bashahr Division. | | | Ambala Division. | | | Kulu Division. | | | Kangra Division. | | | Chamba Division. | | | Lahore Division. | | | Montgomery Division. | | | Multan Division. | | | Chenab Division. | | | Jhelum Division. | | | Rawalpindi Division. | | | Hazara Division | | | TOTAL. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. | A. | P. | Rs | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A | P. | Rs. | A. | P | Rs. | A | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. |
| I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY :— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Timber ... | 2,183 | 5 | 1 | 34,034 | 5 | 6 | 16.225 | 9 | 4 | 4.566 | 10 | 2 | 7.565 | 7 | 9 | 75,298 | 5 | 2 | 430 | 14 | 11 | ... | ... | ... | 45 | 0 | 0 | 228 | 6 | 8 | 1.996 | 4 | 4 | 193 | 14 | 10 | 8,475 | 15 | 8 | 1,51,244 | 3 | 5 |
| b. Firewood and charcoal ... | ... | ... | ... | ... | ... | . | 66 | 14 | 3 | .. | .. | .. | ... | . | .. | 14 | 15 | 9 | 10,415 | 0 | 5 | 49,642 | 10 | 2 | 21,325 | 7 | 8 | ... | ... | ... | 40 | 5 | 0 | ... | ... | ... | 1,556 | 12 | 6 | 83,062 | 1 | 9 |
| c. Bamboos ... | ... | .. | ... | ... | ... | . | ... | ... | .. | ... | ... | ... | 2.959 | 11 | 10 | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | .. | ... | ... | ... | .. | ... | .. | ... | ... | ... | ... | ... | ... | 2,959 | 11 | 10 |
| d. Sandal-wood ... | ... | ... | . | ... | ... | .. | .. | .. | ... | ... | ... | ... | ... | ... | . | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | .. |
| e. Grass & other minor produce | 14 | 9 | 6 | ... | ... | . | ... | ... | . | ... | ... | ... | ... | | . | ... | ... | ... | 348 | 12 | 7 | ... | ... | ... | 538 | 10 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 22 | 2 | 6 | 924 | 2 | 10 |
| II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS ... | ... | ... | ... | ... | ... | ... | ... | . | .. | ... | .. | ... | ... | ... | . | 144 | 5 | 4 | 11 | 9 | 4 | 467 | 5 | 2 | 20 | 0 | 0 | 386 | 5 | 4 | ... | ... | .. | 470 | 2 | 2 | 67 | 14 | 11 | 1,567 | 10 | 3 |
| III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE ... | ... | ... | ... | 12 | 0 | 0 | 1,239 | 15 | 10 | 2.000 | 0 | 0 | 268 | 12 | 3 | 83 | 5 | 9 | ... | ... | ... | ... | ... | ... | 151 | 10 | 6 | 1,094 | 7 | 2 | 1,402 | 3 | 5 | 414 | 11 | 1 | ... | ... | ... | 6,667 | 2 | 0 |
| IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Duty on foreign timber and other forest produce ... | ... | ... | . | ... | ... | ... | ... | ... | .. | ... | .. | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| b. Revenue from shared and private forests ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | .. | ... | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT ... | ... | ... | .. | 10.150 | 0 | 0 | 455 | 0 | 0 | 40 | 0 | 0 | 3,237 | 5 | 5 | 21,000 | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,269 | 4 | 0 | 37,151 | 9 | 5 |
| VI.—LIVE STOCK, STORES. TOOLS AND PLANT— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Purchase of cattle ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| b. Feed and keep of cattle... | ... | .. | ... | 301 | 3 | 1 | 79 | 10 | 5 | ... | ... | ... | .. | ... | ... | ... | ... | ... | 107 | 7 | 10 | ... | ... | ... | ... | ... | ... | 123 | 1 | 7 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 611 | 6 | 11 |
| c. Purchase of stores, tools and plant ... | 749 | 2 | 11 | 312 | 1 | 6 | 56 | 9 | 0 | 9 | 4 | 0 | 72 | 0 | 0 | 17 | 9 | 0 | 9,545 | 7 | 11 | 281 | 11 | 0 | 31 | 2 | 0 | 36 | 2 | 6 | 1 | 4 | 0 | 57 | 14 | 3 | 41 | 6 | 0 | 11,211 | 10 | 1 |

| | | |

**Form No. 59.**

**Dr.** ACCOUNT CURRENT FOR THE YEAR 1890-91. **Cr.**

| | Rs. | A. | P. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| *To Cash Balance* ... ... ... ... | ... | ... | .. | 716 | 7 | 7 |
| „ *VIII Assessed Taxes*— | | | | | | |
| Income Tax—Deductions from salaries... ... | ... | ... | .. | 3,881 | 0 | 9 |
| „ *Revenue as per Annual Summary, Form No.* 58 ... | ... | ... | . | 8,34,369 | 10 | 4 |
| „ *Service Funds*— | | | | | | |
| Civil Fund—Ordinary, Bengal ... ... | ... | . | . | | | |
| „ Additional, Bengal ... ... | ... | . | ... | | | |
| Military Fund—Bengal ... ... ... | ... | ... | ... | | | |
| „ „ Madras ... ... .. | ... | ... | ... | | | |
| „ Orphan Fund—Bengal .. ... | .. | ... | ... | | | |
| Uncovenanted Service Family Pension Fund—Bengal | 1,963 | 4 | 10 | | | |
| General Family Pension Fund ... ... | ... | ... | | | | |
| Hindu Family Annuity Fund ... ... | ... | ... | ... | | | |
| | | | | 1,963 | 4 | 10 |
| „ *Deposits* ... ... ... ... | ... | ... | . | 2,870 | 14 | 4 |
| „ *Forest Cash Remittances—Local*— | | | | | | |
| Forest cheques drawn ... ... ... | 6,21,217 | 1 | 9 | | | |
| Inter-Divisional Transfers ... ... ... | 8,105 | 2 | 0 | | | |
| | | | | 6,29,322 | 3 | 9 |
| „ *Advances Recoverable* ... ... ... | ... | ... | . | 4,02,436 | 15 | 8 |
| „ *Suspense* ... ... ... ... | ... | ... | ... | | | |
| „ *Account Current (other Governments)*— | | | | | | |
| Remittances from Government of India .. | 23,469 | 13 | 9 | | | |
| Ditto ditto N.-W. P. & Oudh | 23,194 | 9 | 10 | | | |
| | | | | 46,664 | 7 | 7 |
| „ *Inter-Departmental Transfers*— | | | | | | |
| Public Works Department State Railways—Rs. A. P. | | | | | | |
| N.-W. Railway 100 11 7 | | | | | | |
| Ordinary Branches ... 17,049 3 9 | | | | | | |
| | 17,149 | 15 | 4 | | | |
| Military Department, Bengal ... ... | ... | ... | ... | | | |
| *Civil Departments*— Rs. A. P. | | | | | | |
| Survey of India Department ... 521 4 0 | | | | | | |
| Medical Store Department... ... 233 7 0 | | | | | | |
| Jail ... ... ... ... 265 8 7 | | | | | | |
| Miscellaneous ... ... ... 4,715 0 0 | | | | | | |
| | 5,735 | 3 | 7 | 22,885 | 2 | 11 |
| Total ... | ... | ... | ... | 19,45,110 | 3 | 9 |

| | Rs. | A. | P. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| By *Expenditure as per Annual Summary, Form No.* 58 ... | ... | ... | ... | 6,63,544 | 1 | 2 |
| „ *Deposits* ... ... ... ... | ... | ... | .. | 3,887 | 5 | 4 |
| „ *Forest Cash Remittances—Local*— | | | | | | |
| Remittances to Treasuries ... ... ... | 5,58,828 | 4 | 1 | | | |
| Inter-Divisional Transfers ... ... ... | 8,113 | 9 | 7 | | | |
| | | | | 5,66,941 | 13 | 8 |
| „ *Advances Recoverable* ... .. ... | ... | ... | ... | 4,00,566 | 5 | 10 |
| „ *Suspense* ... ... ... ... | ... | ... | ... | | | |
| „ *Account Current (other Governments)*— ... ... | | | | | | |
| Remittances to the Government of India ... | 10,705 | 2 | 5 | | | |
| Ditto ditto Central Provinces | 815 | 0 | 10 | | | |
| Ditto ditto Burma ... | 389 | 9 | 4 | | | |
| | | | | 11,909 | 12 | 7 |
| „ *Account Current with Foreign States*— | | | | | | |
| Berar Suspense Account ... ... ... | ... | ... | .. | 1,018 | 1 | 0 |
| „ *Inter-Departmental Transfers*— | | | | | | |
| Public Works Department State Railways... | ... | ... | ... | | | |
| Rs. A. P. | | | | | | |
| North-Western Railway ... 2,72,849 11 11 | | | | | | |
| Ordinary Branches ... 16,890 14 11 | | | | | | |
| | 2,89,740 | 10 | 10 | | | |
| Military Department, Bengal ... ... | 6,566 | 15 | 3 | | | |
| Civil Department, Miscellaneous .. ... | 8 | 7 | 0 | | | |
| Telegraph Department ... ... ... | 333 | 0 | 0 | | | |
| | | | | 2,96,649 | 1 | 1 |
| „ *Cash Balance* ... ... ... ... | ... | .. | .. | 593 | 11 | 1 |
| Total ... | ... | .. | ... | 19,45,110 | 3 | 9 |

CALCUTTA,
*The 18th June 1891.*

I. C. BOSE,
*Asst. Comptroller General (Forests).*

## Form No. 60.

REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING 1890-91.

| Division. | Particulars. | Outstandings at commencement of year. | | | Value of sales and other revenue during year. | | | Total | | | Amount realized during year. | | | Balance due to the Department at end of year. | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rs. | A. | P. | Rs. | A | P. | Rs | A. | P | Rs | A | P. | Rs. | A. | P. | |
| Direction ... | ... | ... | ... | ... | 72 | 0 | 8 | 72 | 0 | 8 | 72 | 0 | 8 | ... | ... | .. | (a) Struck off owing to error, *vide* Conservator's No. 1328, dated 1st September 1890, Rs. 5-4-0. |
| Hazara ... | ... | 100 | 2 | 6 | 28,458 | 1 | 8 | 28,558 | 4 | 2 | (a) 28,522 | 12 | 2 | 35 | 8 | 0 | (b). Struck off on account of cancelled sale, Rs. 600-0-0. |
| Rawalpindi | ... | ... | ... | ... | 32,863 | 1 | 7 | 32,863 | 1 | 7 | 32,863 | 1 | 7 | .. | ... | ... | |
| Chamba ... | ... | 2,101 | 6 | 4 | 62,277 | 12 | 5 | 64,379 | 2 | 9 | 62,277 | 12 | 5 | 2,101 | 6 | 4 | (c). Revenue as per Form No. 58, Rs. 8,34,369 10 4. |
| Kangra ... | ... | 274 | 0 | 0 | 74,716 | 10 | 8 | 74,990 | 10 | 8 | 74,990 | 10 | 8 | ... | ... | ... | |
| Kulu ... | ... | ... | ... | ... | 2,666 | 0 | 4 | 2,666 | 0 | 4 | 2,666 | 0 | 4 | ... | ... | ... | |
| Bashahr ... | ... | ... | .. | ... | 250 | 1 | 10 | 250 | 1 | 10 | 250 | 1 | 10 | ... | ... | ... | |
| Jhelum ... | ... | 38 | 0 | 0 | 37,867 | 14 | 4 | 37,905 | 14 | 4 | 37,868 | 14 | 4 | 37 | 0 | 0 | Amount struck off under sanction 605 4 0 |
| Chenab ... | ... | 1,582 | 13 | 3 | 1,05,792 | 6 | 1 | 1,07,375 | 3 | 4 | (b) 1,00,592 | 6 | 11 | 6,782 | 12 | 5 | |
| Lahore ... | ... | 4,223 | 6 | 3 | 1,03,457 | 14 | 10 | 1,07,681 | 5 | 1 | 1,05,395 | 3 | 11 | 2,286 | 1 | 2 | Total ... 8,34,974 14 4 |
| Multan ... | ... | ... | ... | ... | 89,886 | 9 | 2 | 89,886 | 9 | 2 | 89,886 | 9 | 2 | ... | ... | ... | |
| Montgomery | ... | 513 | 13 | 2 | 2,26,425 | 0 | 8 | 2,26,938 | 13 | 10 | 2,11,011 | 8 | 2 | 15,927 | 5 | 8 | |
| Ambala ... | ... | ... | .. | .. | 88,577 | 12 | 2 | 88,577 | 12 | 2 | 88,577 | 12 | 2 | ... | ... | ... | |
| Total ... | ... | 8,833 | 9 | 6 | 8,53,311 | 6 | 5 | 8,62,144 | 15 | 11 | (c) 8,34,974 | 14 | 4 | 27,170 | 1 | 7 | |

## Form No. 61.

OUTSTANDINGS AND LIABILITIES ON ACCOUNT OF CONTRACTORS AND DISBURSERS FOR 1890-91.

| Division. | Department Debtor. | | | | | | | | | Department Creditor. | | | | | | | | | Balance Due. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | | | Recoveries in cash and value of supplies and work done during the year. | | | At close of year. | | | At commencement of year. | | | Payments made during year. | | | At close of year. | | | To Department (Outstanding.) | | | By Department (Liabilities.) | | |
| | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs | A. | P. | Rs. | A | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A | P. |
| Direction ... | ... | ... | .. | 10,948 | 7 | 3 | 10,948 | 7 | 3 | 165 | 11 | 2 | 10,974 | 13 | 0 | 11,140 | 8 | 2 | 192 | 0 | 11 | ... | ... | ... |
| Bashahr ... | 243 | 5 | 1 | 61,885 | 9 | 8 | 62,128 | 14 | 9 | 4,957 | 10 | 11 | 63,040 | 1 | 4 | 67,997 | 12 | 3 | 5,868 | 13 | 6 | ... | ... | .. |
| Ambala ... | ... | ... | ... | 32,053 | 12 | 11 | 32,053 | 12 | 11 | 985 | 7 | 9 | 31,649 | 5 | 7 | 32,634 | 13 | 4 | 581 | 0 | 5 | ... | ... | ... |
| Kulu .. | ... | .. | .. | 16,193 | 5 | 1 | 16,193 | 5 | 1 | 163 | 14 | 10 | 16,267 | 1 | 6 | 16,431 | 0 | 4 | 237 | 11 | 3 | ... | ... | ... |
| Kangra ... | ... | ... | ... | 40,570 | 14 | 6 | 40,570 | 14 | 6 | 3,029 | 1 | 0 | 38,358 | 15 | 7 | 41,388 | 0 | 7 | 817 | 2 | 1 | ... | ... | ... |
| Chamba ... | ... | ... | ... | 1,03,241 | 6 | 7 | 1,03,241 | 6 | 7 | 98 | 11 | 1 | 1,03,199 | 0 | 6 | 1,03,297 | 11 | 7 | 56 | 5 | 0 | ... | ... | ... |
| Lahore ... | ... | ... | ... | 29,934 | 7 | 0 | 29,934 | 7 | 0 | 231 | 7 | 3 | 29,712 | 13 | 4 | 29,944 | 4 | 7 | 9 | 13 | 7 | ... | ... | ... |
| Montgomery ... | ... | ... | ... | 37,406 | 10 | 4 | 37,406 | 10 | 4 | 171 | 11 | 2 | 37,310 | 4 | 3 | 37,481 | 15 | 5 | 75 | 5 | 1 | ... | ... | ... |
| Multan ... | ... | ... | ... | 8,633 | 12 | 4 | 8,633 | 12 | 4 | 106 | 14 | 2 | 8,630 | 13 | 11 | 8,737 | 12 | 1 | 103 | 15 | 9 | ... | ... | ... |
| Chenab ... | ... | .. | ... | 18,721 | 2 | 10 | 18,721 | 2 | 10 | 185 | 10 | 6 | 18,715 | 0 | 5 | 18,900 | 10 | 11 | 179 | 8 | 1 | ... | ... | ... |
| Jhelum ... | ... | ... | ... | 13,643 | 11 | 5 | 13,643 | 11 | 5 | 283 | 14 | 2 | 13,525 | 12 | 1 | 13,809 | 10 | 3 | 165 | 14 | 10 | ... | ... | ... |
| Rawalpindi ... | ... | ... | ... | 17,939 | 9 | 5 | 17,939 | 9 | 5 | 74 | 12 | 7 | 17,917 | 4 | 6 | 17,992 | 1 | 1 | 52 | 7 | 8 | ... | ... | ... |
| Hazara .. | ... | ... | ... | 11,264 | 2 | 4 | 11,264 | 2 | 4 | 413 | 3 | 8 | 11,264 | 15 | 10 | 11,678 | 3 | 6 | 414 | 1 | 2 | ... | ... | ... |
| Total ... | 243 | 5 | 1 | 4,02,436 | 15 | 8 | 4,02,680 | 4 | 9 | 10,868 | 2 | 3 | 4,00,566 | 5 | 10 | 4,11,434 | 8 | 1 | 8,754 | 3 | 4 | ... | ... | ... |

CALCUTTA,
*The 18th June 1891.*

I. C. BOSE,
*Assistant Comptroller-General (Forests).*

# Form No. 62.

## FINANCIAL RESULTS OF THE YEAR 1890-91.

| Division. | Timber and other produce removed from the Forests by Government Agency. | | Other Revenue. | | Formation, protection and improvement of Forests. | Total. | | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | Receipts. | Charges. | Receipts. | Charges. | Charges | Receipts. | Charges | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs | Rs. | |
| Hazara ... | 9,935 | 19,998 | 18,583 | 7,797 | 9,659 | 28,518 | 37,454 | |
| Rawalpindi ... | 1,032 | 5,753 | 31,831 | 5,636 | 8,819 | 32,863 | 19,708 | |
| Chamba ... | 60,112 | 1,04,369 | 2,166 | 8,122 | 18,565 | 62,278 | 1,31,056 | |
| Kangra ... | 56 294 | 22,432 | 18,697 | 10,498 | 10,155 | 74,991 | 43,085 | |
| Kulu ... | 148 | 11,731 | 2,518 | 5,170 | 6,930 | 2,666 | 23,831 | |
| Bashahr ... | 163 | 51,089 | 87 | 6,915 | 29,673 | 250 | 87,677 | |
| Jhelum ... | 18,942 | 11,575 | 18,927 | 8,136 | 8,509 | 37,869 | 28,220 | |
| Chenab ... | 4,161 | 9,342 | 95,831 | 8,927 | 9,380 | 99,992 | 27,649 | |
| Lahore ... | 62,277 | 22,454 | 43,118 | 8,913 | 31,270 | 1,05,395 | 62,637 | |
| Multan ... | 65,593 | 27,153 | 24,294 | 5,105 | 6,474 | 89,887 | 38,732 | |
| Montgomery ... | 1,73,345 | 52,284 | 37,666 | 3,396 | 2,763 | 2,11,011 | 58,443 | |
| Ambala ... | 82,275 | 23,499 | 6,303 | 5,484 | 8,797 | 88,578 | 37,780 | |
| Direction ... | ... | 23,047 | 72 | 20,710 | 23,515 | 72 | 67,272 | |
| Total ... | 5,34,277 | 3,84,726 | 3,00,093 | 1,04,809 | 1,74,009 | 8,34,370 | 6,63,544 | |
| Total for 1889-90 ... | 5,70,288 | 3,90,608 | 3,51,425 | 99,899 | 1,55,848 | 9,21,713 | 6,45,855 | |

# APPENDIX A.

## STATEMENT OF ANIMALS IMPOUNDED.

| Division. | Cattle and buffaloes. | Sheep and goats. | Camels. | Horses and asses &c. | Total. | Total of 1889-90. |
|---|---|---|---|---|---|---|
| Hazara ... ... ... ... ... ... | 1,285 | 1,654 | 6 | 9 | 2,954 | 2,293 |
| Rawalpindi ... ... ... ... ... ... | 1,870 | 4,315 | 325 | 16 | 6,526 | 5,984 |
| Chamba ... ... ... ... ... ... | ... | ... | ... | ... | ... | ... |
| Kangra ... ... ... ... ... ... | 2,354 | 379 | ... | 29 | 2,762 | 2,388 |
| Kulu ... ... ... ... ... ... | 2 | 223 | ... | 4 | 229 | 92 |
| Bashahr ... ... ... ... ... ... | ... | ... | ... | ... | ... | ... |
| Jhelum ... ... ... ... ... ... | 709 | 283 | 8 | 131 | 1,131 | 1,968 |
| Chenab ... ... ... ... ... ... | 2,452 | 1,690 | 337 | 66 | 4,545 | 2,962 |
| Lahore ... ... ... ... ... ... | 3,915 | 4,426 | 204 | 131 | 8,676 | 5,998 |
| Multan ... ... ... ... ... ... | 1,643 | 2,110 | 521 | 149 | 4,423 | 4,085 |
| Montgomery ... ... ... .. ... | 1,534 | 430 | 159 | 100 | 2,223 | 3,148 |
| Ambala ... ... ... ... ... ... | 333 | 548 | .. | 63 | 944 | 409 |
| Simla Hill Tracts ... ... ... ... ... | 56 | 116 | ... | ... | 172 | ... |
| TOTAL ... | 16,153 | 16,174 | 1,560 | 698 | 34,585 | 29,327 |

# APPENDIX B.

## STATEMENT OF AREAS BURNT DURING THE 10 YEARS 1881-82 TO 1890-91.

| Divisions | 1881-82 | | 1882-83. | | 1883-84 | | 1884-85. | | 1885-86. | | 1886-87. | | 1887-88. | | 1888-89. | | 1889-90. | | 1890-91. | | Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. | No. of fires. | Area burnt. acres. |
| Hazara .. ... ... | 8 | 108 | 30 | 14,350 | 13 | 3,716 | 23 | 13,827 | 11 | 4,460 | 103 | 27,651 | 15 | 253 | 22 | 1,096 | 133 | 23,451 | 1 | ... | 359 | Rs. 88,912 |
| Rawalpindi ... ... | ... | 3,000 | 22 | 6,000 | 19 | 2,618 | 10 | 179 | 15 | 265 | 59 | 49,841 | 13 | 289 | 20 | 2,445 | 26 | 35,064 | 5 | 834 | 189 | 1,00,535 |
| Chamba ... ... ... | 1 | ... | 6 | 5 | 11 | 2,500 | 11 | ... | 7 | 35 | 16 | 523 | 11 | 15 | 4 | 52 | 8 | 131 | 1 | ... | 76 | 3,261 |
| Kangra (old Beas) ... | 30 | 1,926 | 22 | 2,140 | 42 | 16,158 | 7 | 484 | 3 | 3 | 25 | 1,543 | 5 | 284 | 6 | 39 | 10 | 985 | ... | .. | 150 | 23,562 |
| Kulu ... ... ... | ... | ... | 16 | 235 | 17 | 848 | 26 | 448 | 67 | 3,019 | 92 | 40,407 | 32 | 3,709 | 29 | 4,547 | 57 | 7,781 | 17 | 425 | 353 | 61,419 |
| Bashahr ... ... ... | 12 | 462 | 20 | 543 | 11 | ... | 13 | ... | 9 | ... | 7 | 640 | 21 | 1,331 | 19 | 1,106 | 70 | 20,798 | 16 | 7,211 | 198 | 32,091 |
| Jhelum ... ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 9 | ... | ... | ... | ... | 3 | 19 | 1 | 3 | 7 | 31 |
| Chenab ... ... ... | 3 | 53 | 5 | 53 | 9 | 1,219 | 2 | 20 | ... | ... | 7 | 133 | ... | ... | ... | ... | 3 | 407 | 3 | 31 | 32 | 1,916 |
| Lahore ... ... ... | 5 | 500 | 19 | 862 | 7 | 451 | 5 | 245 | 9 | 25 | 27 | 1,125 | 15 | 1,260 | 7 | 640 | 24 | 1,343 | 14 | 144 | 132 | 6,595 |
| Multan ... ... ... | 33 | 9,584 | 20 | 6,604 | 13 | 2,307 | 13 | 4,845 | 21 | 8,410 | 29 | 2,617 | 10 | 2,349 | 19 | 2,552 | 5 | 1,223 | 4 | 648 | 167 | 41,139 |
| Montgomery ... ... | ... | ... | ... | ... | ... | ... | 2 | 7 | ... | ... | ... | ... | 3 | 77 | ... | ... | 8 | 196 | 1 | 225 | 14 | 505 |
| Ambala (old Phillour) ... | .. | ... | 3 | 4 | 1 | 90 | 3 | 2,000 | 3 | 500 | 20 | 9,403 | 7 | 757 | 14 | 5,140 | 16 | 6,539 | 4 | 7 | 71 | 24,440 |
| Simla Hill Tracts ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4 | 936 | ... | ... | ... | ... | ... | ... | ... | ... | 4 | 936 |
| Total ... | 92 | 15,633 | 163 | 30,796 | 143 | 29,907 | 115 | 22,055 | 145 | 16,717 | 392 | 1,34,828 | 132 | 10,324 | 140 | 17,617 | 363 | 97,937 | 67 | 9,528 | 1,752 | 3,85,342 |

# APPENDIX C.

## STATEMENT OF IMPORTS OF TIMBER AND BAMBOOS DURING 1890-91.

| River. | Territory from which received. | Deodar logs. | Pine logs. | Other logs. | Sleepers. | Scantlings. | Bamboos and Scraps. | Miscellaneous Timber. |
|---|---|---|---|---|---|---|---|---|
| Sutlej ... | Native States ... | ... | ... | 274 | 2,46,524 | 7,154 | 59,790 | 1,387 |
| Beas ... | Mandi ... | ... | ... | ... | 40,387 | ... | ... | ... |
| Ravi ... | Kashmir ... | 4,280 | ... | ... | 1,340 | 1,645 | 1,325 | 9,562 |
| Chenab ... | Do. ... | 856 | 1,429 | ... | 1,87,614 | ... | 9,251 | ... |
| Jhelum ... | Do. ... | 10 | ... | ... | 32,629 | ... | ... | 3,51,096 |
| Indus ... | Swat, Kashgar Chinjli, &c. ... | 11,127 | ... | ... | ... | ... | ... | 50,754 |
| | Total ... | 16,273 | 1,429 | 274 | 5,08,494 | 8,799 | 70,366 | 4,13,349 |

# APPENDIX D.

## STATEMENT SHOWING ABSTRACT OF DRIFT OPERATIONS DURING THE YEAR

| Particulars. | No. or quantity | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet | Particulars. | No. or quantity. | Cubic feet. | Total of each head. No. or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| **DRIFT TIMBER.** | | | | | | | | | |
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR** | | | | | **DISPOSALS** | | | | |
| | | | | | Made over to claimants | | | | |
| *Jhelum Division.* | | | | | Deodar logs ... | 158 | 1,920 | | |
| Deodar logs ... | 8 | 220 | | | Pine logs ... | 6 | 145 | | |
| Sleepers ... | 364 | 1,266 | | | B. G sleepers ... | 105 | 309 | | |
| Pine logs ... | 5 | 63 | | | Deodar sleepers ... | 96 | 50 | | |
| Miscellaneous pieces | 76 | 115 | | | Sleepers .. | 342 | 1,192 | | |
| | | | 453 | 1,664 | Pine sleepers ... | 9 | ... | | |
| *Chenab Division* | | | | | Deodar scantlings | 11 | 6 | | |
| Deodar logs | 5 | 54 | | | Scantlings ... | 2,810 | 6,817 | | |
| B. G sleepers . | 25 | 76 | | | Miscellaneous pieces | 246 | 224 | 3,778 | 10,163 |
| Pine logs .. | 8 | 19 | | | Transferred to Government Account. | | | | |
| Scraps and pieces | 13 | 45 | | | Deodar logs ... | 479 | 5,770 | | |
| | | | 46 | 194 | Pine logs ... | 423 | 3,530 | | |
| *Ambala Division.* | | | | | B. G. sleepers .. | 66 | 201 | | |
| Logs ... | 1 | 5 | | | Deodar sleepers .. | 79 | 220 | | |
| Scantlings ... | 1,874 | 5,490 | | | Pine sleepers .. | 8 | 25 | | |
| Scraps and pieces | 26 | 39 | | | Pine beams .. | 9 | 145 | | |
| Bamboos ... | 554 | ... | | | Deodar scantlings | 38 | 19 | | |
| " pieces .. | 65 | ... | | | Scantlings ... | 396 | 941 | | |
| | | | 2,500 | 5,534 | Sleepers . | 79 | 241 | | |
| | | | | | Deodar beams ... | 1 | 3 | | |
| | | | | | Miscellaneous pieces | 1,110 | 3,717 | | |
| | | | | | Drift and waif wood | 359 | 581 | | |
| | | | | | Bamboos ... | 534 | ... | | |
| | | | | | " pieces .. | 65 | ... | | |
| | | | | | | | | 3,646 | 15,390 |
| **TOTAL BALANCE ...** | | | 2,999 | 7,392 | **TOTAL DISPOSALS .** | | | 7,424 | 25,553 |
| **RECEIPTS.** | | | | | **BALANCE AT THE CLOSE OF THE YEAR.** | | | | |
| Received during the year | | | | | *Jhelum Division.* | | | | |
| Deodar logs ... | 761 | 9,162 | | | Deodar logs ... | 1 | 9 | | |
| Pine logs ... | 537 | 5,213 | | | Pine logs .. | 2 | 16 | | |
| B. G. sleepers | 181 | 539 | | | Sleepers .. | 1 | 3 | | |
| Deodar sleepers. ... | 175 | 270 | | | | | | 4 | 28 |
| Sleepers .. | 58 | 177 | | | | | | | |
| Pine sleepers .. | 24 | 46 | | | | | | | |
| Deodar beams ... | 10 | 145 | | | | | | | |
| " scantlings | 49 | 25 | | | *Chenab Division* | | | | |
| Scantlings .. | 6,002 | 12,009 | | | | | | | |
| Miscellaneous pieces ... | 1,765 | 6,242 | | | Deodar logs ... | 139 | 1,699 | | |
| Drift and waif ... | 359 | 581 | | | Pine logs ... | 117 | 1,647 | | |
| | | | | | B. G sleepers | 35 | 105 | | |
| | | | 9,921 | 34,409 | Pine " | 7 | 21 | | |
| | | | | | Scraps and pieces .. | 524 | 2,507 | | |
| | | | | | | | | 822 | 5,979 |
| | | | | | *Ambala Division.* | | | | |
| | | | | | Scantlings ... | 4,670 | 10,241 | 4,670 | 10,241 |
| **TOTAL RECEIPTS** | | | 9,921 | 34,409 | **TOTAL BALANCE ...** | | | 5,496 | 16,248 |
| **TOTAL ...** | ... | . | 12,920 | 41,422 | **TOTAL ...** | ... | ... | 12,920 | 41,422 |
| TOTAL FOR 1889-90. | ... | ... | 11,751 | 33,500 | TOTAL FOR 1889-90. | ... | ... | 11,751 | 33,500 |

Note.—Receipts include 80 logs, 85 sleepers and 105 miscellaneous pieces in the Chamba Dvision of which the cubical contents are unknown.